COLUMBIA DEMOCRAT.

"I have sworn upon the Altar of God, eternal hostility to every form of Tyranny over the Blind of Man."-Thomas Jefferson,

PRINTED AND PUBLISHED BY H. WEBB.

Volume II.

BLOOMSBURG, COLUMBIA COUNTY, PA. SATURDAY, JANUARY 12, 1839.

Number 38.

OFFICE OF THE DEMOCRAT.

TERMS: The GOLUMBIA DEMOCRAT will be published every Saturday morning, at TWO DOLLARS per annum, payable half yearly in advance, or Two Dollars

Fifty Cents, if not paid within the year. No subscription will be taken for a shorter period than six months; nor any discontinuance permitted, until all arrearages are discharged.

ADVERTISEMENTS not exceeding a square will be conspicuously inserted at One Dollar for the first three insertions, and Twenty-five cents for every subsequent nsertion. made to those who a wertise by the year. LETTERS addressed on business, must be post paid.

BLOOMSBURG, PA.

SATURDAY, JANUARY 12.

For the Columbia Democrat. DIALOGUE Between a Teacher and his Pupils, on the

NATURE OF LIGHT. Scene-A School-room at the close of a ed.

Holiday.

Tutor .- Well my young friend you have been to see the strolling Necromancer!

William .- Yes Sir, we saw him perform several very amusing exploits, but the whole pleasure of the jaunt has been destroyed by an unfortunate quarrel between George and James.

Tutor .- A quarrel! how so ? I though you better taught. It grieves me, but let me hear the particulars.

James .- I will tell you and when I have done, I presume you will be surprised at the unprovoked wickedness of George. Even he does not pretend to say I did any harm to him.

George .- I admit he did no mischief to me and I did nothing to him.

James .- If he did no injury to me, then I must believe in witch-craft, and you sir, have always told us that no such thing exists; and that all things can be accounted in which you hold the looking-glass that ous, for on rational principles.

Tutor .- I told you so: but moderate your anger and tell your story, and William and Levi can say say whether you state the case that gave them; but if you turn the glass to

James .- As we came home from the village, we took the path across Mr. Jone's mendow. A little before we came to the creek we crossed over the the mill-race on a alab which lay close to the water. While we stood on the slab G' none lid he saw a orab crawling along the bottom amongst the stones and asked me to let him have my long Cossack Spear to catch it with. I gave It to him, but told him to be very careful and not break it, because my Uncle gave it to me, and would be offended if it were broken. The moment he had the spear in his hands he thrust it into the water and I expeet it must have struck the bottom, for it bent very much.

George .- It did not touch the bottom.

James .- It must have struck something for I say it bent and we do not see straight aticks bend of themselves. Well Sir, The further the crab moved from him the more violently he forced my spear in the ground for it bent almost double. The more I begged him to quit, the more determined he seemed to break the spear.

George .- I say again it did not touch the ground, and when I had done I returned him the spear straight and sound. When I gave it to him he struck me on the head with it and said I was a wicked wretch.

Tutor-Well Levi, has James stated the

case fairly ? Levi .- Yes Sir.

Tutor .- Was the spear bent?

Levi-It was: And the louder James begged to save his spear the more George bent it until the crab got under a big stone and thus escaped from him.

George .- I protest it did not touch the

Will .- I did not see the spear hit any thing but it was certainly very crocked, and will make of it. grow worse the longer George had it.

and I'll engage if James produce it now, it bent. is neither broken nor bent.

(Spear produced and examined by the Tutor and all the boys)

James .- It is not through George's carefulness or good will if it is.

Tutor .- Hush ! James. Perhaps George learned so much slight of hand from the Showman that he witched it crooked.

James .- Then Sir, We have learned your lessons in vain, if every wicked fellow can play tricks as he pleases.

William .- I thought it very naughty to

bend the stick so, because it might break and then Jame's Uncle would be angry with Tutor .- George has done nothing

wrong. The spear was not bent. I will explain this matter as well as I can, and when you understand the science of natural philosophy better I will explain it more

Levi .- I shall be glad to hear it explain-

Tutor .- Every thing we see is brought comes from the sun or from a flame. It tion. That is, a dark body such as a piece of metal or a looking-glass, may throw back the light of a candle or the sun so as to make it shine in a place which is in the shade of some object which stands between that spot and the body from which the rays of light come. The moon shines only by reflection. That is, the light which we call "Moon-light" is really the light of the sun thrown upon us by the moon intercepting the sun's rays and throwing them back, or when turned aside by striking something, only watched the crab. The rays may be turned precisely back to the object which gave them out, or more or less to one side, according to the position is to reflect them. If you hold the glass square across the straight line of rays, it will throw them exactly back to the point one side, then the light will be thrown to apright or inclined. that side. The more obliquity you hold one side. This you can prove when you please by means of a looking-glass; and by using two a boy may see the back part of

his own head. Levi .- This subject is very pleasing and I shall be glad if you will assist us in trying the experiments; but I do not see what this bending of light has to do with giving does not prove any supernatural agency, but George a right to break Jame's spear.

Tutor .- It gives no such right. But listen. Light passes straight except when turned aside. Now if something crosses a straight line drawn from your eye to any object at a distance you cannot see that ob- his wand.

Levi .- That I understand very well. If William goes behind the door I cannot see

Tutor .- The cause of that is, that the rays of light thrown off or reflected by his body pass in a direct line and hence strike the door and come no further. But when these rays pass through a medium that is dense they are more obstructed than if the medium be more rare. By medium I mean any substance of matter which lies round about the object seen, or between you and means thin or less easily perceived, thus water is more easily perceived if you pass a stick thro' it than Air and hence it is said to be more defise. Now the rays of light in passing from a dense to a thinner medium are bent or as philosophers say refracted-and the more obliquely or aslant they pass from one to the other the more they bend.

William .- I begin to see now what you

Tutor .- George thrust the spear into the

George.-They may say what they will, water almost perpendicularly at first, you NEXT DOOR TO ROBISON'S STAGE OFFICE. I did not see that the spear was bent at all, say, and at that time the spear was not much explained. He caused a needle to dance

> James .- So it appeared to me, and I suppose he did not push so hard at first.

William .-- As the crab ran away he leaned Tutor .- The spear is both sound and the staff over more and then it bent very

from so much of the staff as was under wa- tween us and the watch. ter passed through the water in passing to your eye; and when it came to the top of the You know we looked through a long tube, water it come into the air (a thinner medi- shaped somewhat like a carpenter's brace um) and hence, though the stick remained for boring. The tube went straight, about perfectly straight, the rays sent off from it six inches and there went out a branch to were bent, conforming to the image of a the right hand, which turned and run some crooked stick all seen through one medium. distance parallel with the main tube and The more you leaned the stick the crook- then turned a square corner and joined the eder it seemed to be, because the rays com- main tube again about six inches from the to the other more obliquely. This fact can middle and had about two inches of it taken be proved by laying a piece of silver in a out. The iron bar was placed in this gap. bowl, then walk backwards from the bowl When any thing was held at the farther until the silver totally disapears behind the end of the tube we saw it just as plainly as edge of the bowl. Let some one pour water into the bowl and the silver will re-appear. down and then appeared straight because Mr. Jone's watch at all, but saw another to our senses by means of light. Light all the rays came out of the water from the stick at once; but when the crab run away may come in a secondary way by reflect of course he reached after it and then some of the rays had to pass further through the water than others, and so represented or reflected it crooked. I now perceived that the stick scemed to be bent owing to its position, but was really straight as ever. This singular matter is now accounted for without witch-craft. George, I ask your par-

> don, and am sorry I struck you. George.-It is granted. I knew it did not touch the bottom, but I was puzzled to account for the bending which you all declar-

Into .- Your wondusion is charget James, though your reasoning differs from see through a looking glass. received opinion and is somewhat errone-

water and a straight stick.)

Tutor .- I am happy to see you reconcilthe glass the more the rays will be cast to ed. From this incident we may learn to deliberate before we decide.

PART SECOND.

Tutor .- That may be, but it only proves my ignorance of that branch of science, but let us here you describe one performance.

of water; and though the fowl was only an image artificially made yet it moved about the basin just as he told it or directed it with

William .- I can account for that myself. There was a magnet in the Swan's bill and the fellow had a piece of iron fastened on course the swan drew towards the iron because of the magnet.

James .- You have not explained it after all. Why does a magnet run towards I-

Tutor .- That is hard to explain. But it is true that a piece of steel rubbed with a stone called "Load Stone" will attract iron or steel. A piece of Iron standing long on that object as air, water &c. Dense means the same end becomes integrate; and long thick or more easily perceived and Rare rubbing two pieces of iron together in a certain way, makes the one attract other Iron. The steel when magnetised and hung on a south position-

William .- This is the way the needles like to have some further explanation. for mariners and surveyors' Compasses are made I believe.

to explain in words, here is a magnet with which you may try the experiments.

up needles &c.)

George.-Another of his tricks is now on a pewter plate while he beat a tune on the opposite side with a nail. That nail I suppose was a magnet,

Levi .- I suspect you will find it pretty difficult to tell how he enabled us to see the time of day by Mr. Jone's watch when a Tuter .- True. The light in passing piece of Iron an inch thick was placed be-

James .- That I think I understood .ng from it passed from the one medium in- end. The main tube was cut off in the if the iron were not there. When Mr. Jone's held his watch there we saw the James .- I see how it is now. When George | time as well as if nothing Itad been in the first put my stick in the water it was straight way. I believe however we did not see watch in the tube between us and the iron.

> Levi .- In that you are mistaken, for the watch disappeared when Jones took his away. Besides how could we see any thing else if a watch had been in the tube.

James .- True. I did not think of that. Tutor .- The sight of the watch was in consequence of a looking glass placed obiquely at each angle of the crooked tube so as to bend the rays and throw them along three sides of the square, you spoke of, instead of allowing them to pass straight thro' the main tube as they would do if left undisturbed. Every object you saw through to one side, on us. Light or Rays of ed took place, and therefore did not believe the tube was seen through the three sides, light fly straight and never bend except you. I did not notice it myself because I and not through the one; so that shutting up the main tube made no difference. In fact, it was abut all the time, because you cannot

George.-I have some idea of it now. But how miserably the fellow lied! He (Enter William with a bucket of clear said the power of that tube was such that he could see things hid in the bowels of the William .- See here James; this stick is earth, locked up in drawers, or at the botstraight or crooked according as I hold it tom of the sea, as well as when plainly in view. He said he could see men's hearts as well as they could see their own hands, and that his ability to tell fortunes depended on that fact:

Tutor .- The tube is a simple instru-Levi .- The show-man performed some ment that any carpenter, with a few mintricks that I think will puzzle you to account utes instruction, can make, and with its aid, either of you can tell fortunes as well as he: As to his seeing invisible things, his assertion is a falsehood: And his fortune telling is merely telling ignorant people any thing which he supposes will please them, for Levi .- He had a swan in a large basin the purpose of swindling them out of their

William .- He had a box into which we put our heads, and he covered us up quite dark. When we were ready to look he opened a hole by means of which we saw persons walking, riding, working, &c. and saw towns, woods, rivers, and many other the stick which he called his wand. Of things, He said he was showing us the city of Jerusalem during the building of Solomon's l'emple, and I really saw men working at a very great building.

Tutor .- All he showed you was the village and the people in it by means of reflected light. The building was the new church, and no doubt the mystery he threw about the matter raised your expectations so high that you failed to notice that the objects shown you were the same that you saw before you entered the box.

Levi .- Although the fellow has cheated us, I do not begrudge my shilling seeing it centre pin immediately assumes a north and has led to an explanation of the matter so as to prevent being cheated again. I should

Tutor .- You shall have it at the proper time. It is too late now. In the mean Tutor .- It is; but as the matter is hard time you may gain much information by reading a treatise on natural philosophy.-You will find a description of the way in which the city and temple was shown an-(Magnet produced and and William picks | der the head of Camera Obscura.

Cauawissa, January 1, 1839.

POLITIOAL.

ADDRESS TO THE FREEMEN OF PENNSYLVANIA. Fellow Citizens-

The Committee of Safely embraces this occasion to announce to you the peaceful and satisfactory termination of the disorders, usurpations and dangers, at the capitol of the state, which menaced the purity of the elective franchise-threatened to subvert the constitution and laws, and to prostrate our republican government, at the date of its last address to the people. This happy result, is the fruit of the firmness, union and moderation of the democratic members of of both houses of the legislature sustained ov the approving plaudits of the entire denocraeracy, and a respectable portion of the federalists, of the state. The disgraceful preceedings of the secretary of state, and other officers of government of Pennsylvania, on the 4th inst. in the senate and house of representatives, produced a burst of indignant condemnation from every county and township within the borders of this commonwealth, which struck the governor and his confederate conspirators against the liberties of the people, with the deepest dismay. They faultered in their highhanded usurpations, but refused to recede. The military forces were called here to stimulate the friends of the Governor, as well as to overawe the people. It was hoped that the voice of censure would be hushed, and the hearts of the wavering friends of the admin istration be inspired with new courage by the gleaming of a thousand bayonets, and the intimidations of a battery of cannon.

The pretext, that an "infuriated armed mob," was in possession of the capital, used to justify the assembling of soldiers in Harrisburg, is considered too idle and ridiculous for refutation, by all honorable and candid men even of the federal party. It is known to be false, by every individual who was in the capital during the scenes described, and it is a subject of painful and mortifying contemplation to all, that the governor of Pennsylvania should have condescended to give his official sanction to such groundless attacks upon that portion of the people, whom accident curiosity, or an anxious devotion to the cause of the constitation and laws, convened in the borough of Harrisburg on the 4th of December. Whatever violence of proceeding occurred in the senate on that day, is immediately attributad ble to the lawless, unconstitutional and freal sonable conduct of the secretary of state, and his political friends and associates -They alone produced, and are answerable for, the consequences. There was "no mob," armed or unarmed, organized in the senate chamber, to overawe the members or subject their actions to his will-The confusions that followed the unscrupulong usurpations of the secretary of state and his political adherents in that body, on the day referred to, were the sudden and uncontrolable emotions of honest freemen when they beheld the constitution and laws trampled on and insulted, by the warty whose organ, the present printer of the senate, had proclaimed, a month before the meeting of the legislature, that the minority federal candidates for the senate and house of representatives from the county of Philsdelphia, "would have their seats-peaceably if they could, forcibly if they must."

It was manifest from the proceedings of the senate, that this threat was intended to be carried into execution, and if disapprobation was expressed, even in the senate chamber, by the citizens there assembled. it should not surprise those who are proud to emulate the example of their patriotic fathers and who hope if they err in so doing that "something will be pardoned to the spirit of liberty."

But if it was even true, as alleged, that the proceedings of the people in the senate chamber on the 4th inst. were so riotous and violent us to interrupt the action of the senate, it would not justify the assembling of the military forces at the capital, for it is not pretended by any man who had a "con-