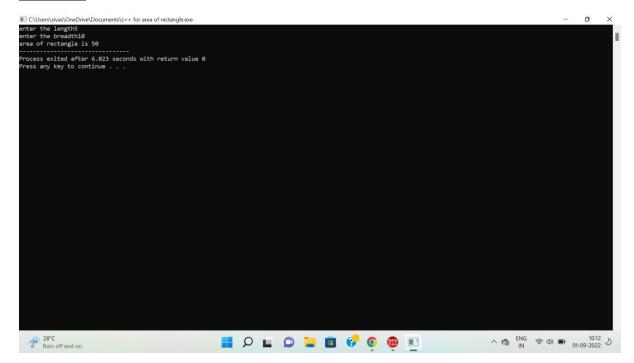
Program:-1

```
#include<iostream>
#include<math.h>
using namespace std;
class rectangle
{
        private:
                int r;
        public:
                rectangle(int l,int b)
                {
                        r=l*b;
                }
                int display()
                cout<<"area of rectangle is "<<r;</pre>
                return 0;
                }
};
int main()
{
        int l,b;
        cout<<"enter the length";
        cin>>l;
        cout<<"enter the breadth";
        cin>>b;
        rectangle r(l,b);
        r.display();
return 0;
}
```

Output:-



Program:-2

```
#include<iostream>
using namespace std;
int main()
{
       int m1,m2,m3,total,avg,reg_no;
       cout<<"enter the reg no";</pre>
       cin>>reg_no;
       cout<<"enter the 3 marks";
       cin>>m1>>m2>>m3;
       total=m1+m2+m3;
       avg=total/3;
       if(int(m1)\&\&int(m2)\&\&int(m3)\&\&m1<=100\&\&m2<=100\&\&m3<=100)
       {
               if(avg>=90)
               {
                       cout<<reg_no<<" grade A";</pre>
               }
```

```
else if(avg>=80&&avg<=90)
               {
                       cout<<reg_no<<" grade B";</pre>
               }
               else if(avg>=70&&avg<=80)
               {
                       cout<<reg_no<<" grade C";
               }
               else if(avg>=60&&avg<=70)
               {
                       cout<<reg_no<<" grade D";
               }
               else if(avg>=50&&avg<=60)
               {
                       cout<<reg_no<<" grade E";
               }
               else
               {
                       cout<<reg_no<<" fail";
               }
       }
       else
       {
               cout<<"enter the valid marks";</pre>
       }
       return 0;
}
```

Output:-

