

**Program:1**

```
#include<iostream>

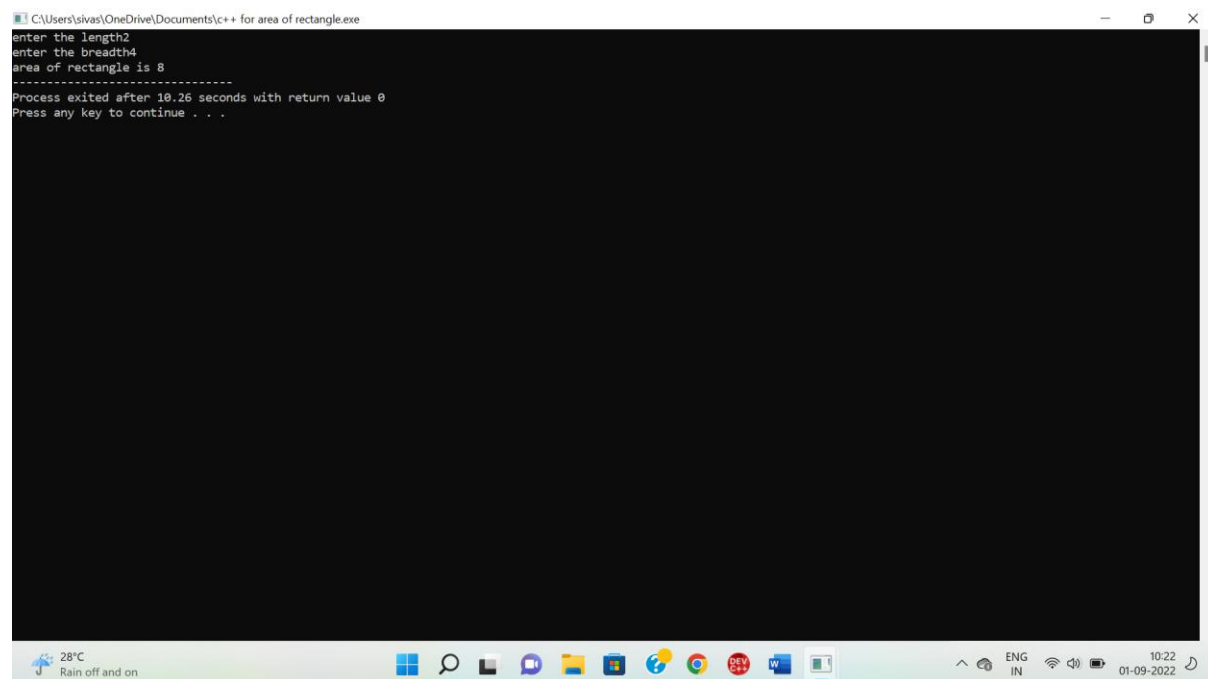
#include<math.h>

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;
            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:-



```
C:\Users\sivas\OneDrive\Documents\c++ for area of rectangle.exe
enter the length2
enter the breadth4
area of rectangle is 8
-----
Process exited after 10.26 seconds with return value 0
Press any key to continue . . .
```

## Program:2

```
#include<iostream>

using namespace std;

int main()
{
    int m1,m2,m3,total,avg,reg_no;

    cout<<"enter the reg no";

    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";
        }
    }
}
```

```

else if(avg>=80&&avg<=90)
{
    cout<<reg_no<<" grade B";
}
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";
}
return 0;
}

```

**Output:-**

```
C:\Users\sivas\OneDrive\Documents\c++ for student marks.exe
enter the reg no:192110468
enter the 3 marks:100
91
93
192110468 grade A
-----
Process exited after 19.9 seconds with return value 0
Press any key to continue . . .
```

28°C  
Rain off and on



ENG  
IN  
10:26  
01-09-2022