TASK : FUNCTION OVERLOADING

You need to perform following tasks:
1) Write a C++ program to find a circle, triangle and rectangle. Keep following things in mind:
   a. User will first choose shape.
   b. User will enter requride inputs, such as radius if opted for circle and similarly for rectangle and triangle.
   c. Name of function must be "area"
   d. Example Output: Area of triangle is 144 sq.units.
2) Post this code to your GitHub repository.

PROGRAM:

```cpp
#include<iostream>

#include<math.h>

using namespace std;

int main()

{

float a,b,c,s,r,area;

int ch;

cout<<"1.Area Of Circle";

cout<<"\n2.Area Of Rectangle";

cout<<"\n3.Area Of Triangle \n";

cout<<"\nEnter Your Choice :";

cin>>ch;

switch(ch)
```

```cpp
{
case 1:
{
cout<<"\nEnter Radius Of The Circle: ";
cin>>r;
area=3.14*r*r;
break;
}
case 2:
{
cout<<"\nEnter Length And Breadth Of Rectangle:";
cin>>a>>b;
area=a*b;
break;
}
case 3:
{
cout<<"\nEnter Three Sides Of The Triangle:";
cin>>a>>b>>c;
s=(a+b+c)/2;
area=sqrt(s*(s-a)*(s-b)*(s-c));
```

```
break;

}

default:
cout<<"\n
Invalid Choice
Try
Again...!!!";

break;

}

cout<<"Area =
"<<area<<endl;

return 0;

}
```

OUTPUT:

```
1.Area Of Circle
2.Area Of Rectangle
3.Area Of Triangle

Enter Your Choice :1

Enter Radius Of The Circle: 9
Area = 254.34
```

```
1.Area Of Circle
2.Area Of Rectangle
3.Area Of Triangle

Enter Your Choice :2

Enter Length And Breadth Of Rectangle:8
4
Area = 32
.................................
```

```
1.Area Of Circle
2.Area Of Rectangle
3.Area Of Triangle

Enter Your Choice :3

Enter Three Sides Of The Triangle:18
18
18
Area = 140.296

.................................
```