

Task: Function Overloading

```
#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 << "2. (area of rectangle) \n";
```

```
cout << "3. (area of triangle) \n";
```

```
cout << "Enter the task";
```

```
cin >> ch;
```

```
switch (ch)
```

```
{
```

```
case 1:
```

```
{
```

```
cout << "Enter radius of circle \n";
```

```
cin >> r;
```

```
area = 3.14 * r * r;
```

```
break;
```

```

}
case 2:
{
    cout << "Enter length and breadth of rectangle";
    cin >> a >> b;
    area = a * b;
    break;
}
case 3:
{
    cout << "Enter 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 << "Invalid task";
    break;
}
cout << "Area = " << area << endl;
return 0;
}

```