

PYTHON

```
def area_rectangel():
    x = int(input("Enter the length: "))
    y = int(input("Enter the height: "))
    z = x*y
    print(f"The area is {z}.")

def area_triangel():
    x = int(input("Enter the base: "))
    y = int(input("Enter the height: "))
    z = (1/2)*x*y
    print(f"The area is {z}.")

def area_circle():
    x = int(input("Enter the radius: "))
    z = (x**2)*3.145
    print(f"The area is {z}.")

while True:
    shape = input("Which shape's(rectangle, triangle, circle) area do you want to calculate and if you want to exit press enter: ")
    if shape == "rectangle":
        area_rectangel()
    elif shape == "triangle":
        area_triangel()
    elif shape == "circle":
        area_circle()
    elif shape == "":
        break
```

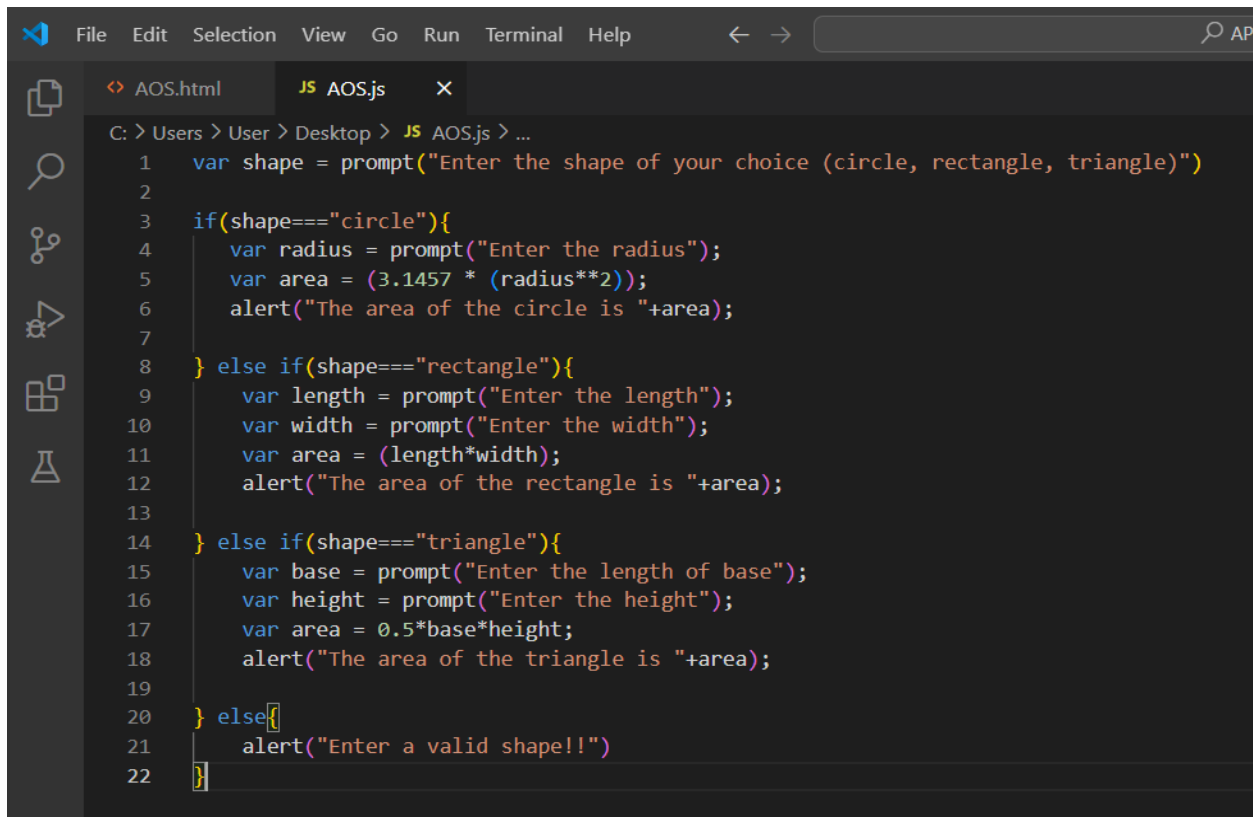
```
C:\WINDOWS\py.exe
Which shape's(rectangle, triangle, circle) area do you want to calculate and if you want to exit press enter: |
```

```
C:\WINDOWS\py.exe
Which shape's(rectangle, triangle, circle) area do you want to calculate and if you want to exit press enter: rectangle
Enter the length: 4
Enter the height: 3
The area is 12.
```

```
Which shape's(rectangle, triangle, circle) area do you want to calculate and if you want to exit press enter: triangle
Enter the base: 12
Enter the height: 10
The area is 60.0.
```

```
C:\WINDOWS\py.exe
Which shape's(rectangle, triangle, circle) area do you want to calculate and if you want to exit press enter: circle
Enter the radius: 10
The area is 314.5.
```

JavaScript



```
File Edit Selection View Go Run Terminal Help
AOS.html JS AOS.js X
C: > Users > User > Desktop > JS AOS.js > ...
1 var shape = prompt("Enter the shape of your choice (circle, rectangle, triangle)")
2
3 if(shape==="circle"){
4     var radius = prompt("Enter the radius");
5     var area = (3.1457 * (radius**2));
6     alert("The area of the circle is "+area);
7 }
8 } else if(shape==="rectangle"){
9     var length = prompt("Enter the length");
10    var width = prompt("Enter the width");
11    var area = (length*width);
12    alert("The area of the rectangle is "+area);
13 }
14 } else if(shape==="triangle"){
15     var base = prompt("Enter the length of base");
16     var height = prompt("Enter the height");
17     var area = 0.5*base*height;
18     alert("The area of the triangle is "+area);
19 }
20 } else{
21     alert("Enter a valid shape!!")
22 }
```

This page says

Enter the shape of your choice (circle, rectangle, triangle)

OK Cancel

This page says

Enter the radius

OK Cancel

This page says

The area of the circle is 12.5828

OK

Rectangle

This page says

Enter the length

4

OK

Cancel

This page says

Enter the width

4

OK

Cancel

This page says

The area of the rectangle is 16

OK

Triangle

This page says

Enter the length of base

This page says

Enter the height

This page says

The area of the triangle is 12

JAVA

Main.java

```
1 import java.util.Scanner;
2
3 class Main {
4     public static void main(String[] args) {
5         Scanner myObj = new Scanner(System.in);
6         String shape;
7
8         System.out.println("Enter shape(circle,rectangle,triangle:");
9         shape = myObj.nextLine();
10
11         switch(shape){
12             case "circle":
13                 System.out.println("Enter the radius: ");
14                 double radius = myObj.nextDouble();
15                 double area = 3.1416 * radius * radius;
16                 System.out.println("The area of the circle is " + area);
17                 break;
18             case "rectangle":
19                 System.out.println("Enter the length: ");
20                 double length = myObj.nextDouble();
21                 System.out.println("Enter the width: ");
22                 double width = myObj.nextDouble();
23                 double area2 = length * width;
24                 System.out.println("The area of the rectangle is " + area2);
25                 break;
26             case "triangle":
27                 System.out.println("Enter the base: ");
28                 double base = myObj.nextDouble();
29                 System.out.println("Enter the height: ");
30                 double height = myObj.nextDouble();
31                 double area3 = 0.5 * base * height;
32                 System.out.println("The area of the triangle is " + area3);
33                 break;
34         }
35     }
36 }
```

```
java -cp /tmp/1aYn9QPHBb/Main
```

```
Enter shape(circle,rectangle,triangle):
```

```
|
```

```
java -cp /tmp/8gpSMNUqU6/Main
Enter shape(circle,rectangle,triangle):
circle
Enter the radius:
4
The area of the circle is 50.2656

=== Code Execution Successful ===
```

```
java -cp /tmp/KwvLdcjxcW/Main
Enter shape(circle,rectangle,triangle):
rectangle
Enter the length:
6
Enter the width:
5
The area of the rectangle is 30.0

=== Code Execution Successful ===
```

```
java -cp /tmp/OQ9VqnptFi/Main
Enter shape(circle,rectangle,triangle):
triangle
Enter the base:
12
Enter the height:
3
The area of the triangle is 18.0

=== Code Execution Successful ===
```