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← → C º= programiz.com/python-programming/online-compiler/
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Programiz Python Online Compiler
                                      국는 -் 소속 Share Run
 1 - def area_of_a_rectangle(length,width):
                                                                       pick between the shapes rectangle, cirlce and triangle to calc area:
       area_of_a_rectangle = length * width
                                                                         rectangle
       return area of a rectangle
                                                                       enter length 8
                                                                       enter width 4
                                                                       area of the rectangle: 32
                                                                       === Code Execution Successful ===
        return circle_area
10 def area_of_a_triangle(base,height):
       triangle area = 0.5 * base * height
       return triangle area
     length=int(input("enter length "))
     width=int(input("enter width "))
     area_of_a_rectangle = length*width
     print("area of the rectangle:", area_of_a_rectangle)
21 elif shape == "circle":
```

```
def area_of_a_rectangle(length,width):
  area of a rectangle = length * width
  return area_of_a_rectangle
def area_of_a_circle(radius):
  pi = 3.14
  circle area = pi * radius * radius
  return circle_area
def area of a triangle(base,height):
  triangle_area = 0.5 * base * height
  return triangle area
shape=str(input("pick between the shapes rectangle, cirice and triangle to calc area: "))
if shape == "rectangle":
 length=int(input("enter length "))
 width=int(input("enter width "))
 area_of_a_rectangle = length*width
 print("area of the rectangle:", area_of_a_rectangle)
elif shape == "circle":
 pie = 3.1415
 radius=int(input("enter radius: "))
 area of a circle = pie*radius**2
 print("area of the circle:", area_of_a_circle)
```

```
elif shape == "triangle":
    k = 0.5
    base=int(input("enter base: "))
    height=int(input("enter height: "))
    area_of_a_triangle = (k*base*height)
    print("area of the triangle:", area_of_a_triangle)

else:
    print("Your choice is invalid, kindly enter correct choice: ")
```

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Programiz C# Online Compiler
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Main.cs
                                                              Run
                                                                           Output
                                                                                                                                           Clear
 1 using System;
                                                                         Pick between the shapes rectangle, circle and triangle to calculate
 3 class Program
                                                                           area: triangle
                                                                         Enter base: 8
        static double AreaOfRectangle(double length, double width)
                                                                         Enter height: 5
                                                                         Area of the triangle: 20
            return length * width;
                                                                          === Code Execution Successful ===
        static double AreaOfCircle(double radius)
        static double AreaOfTriangle(double baseLength, double
            return 0.5 * baseLength * height;
        static void Main()
```

```
class Program
{
    static double AreaOfRectangle(double length, double width)
    {
        return length * width;
    }

    static double AreaOfCircle(double radius)
    {
        double pi = 3.14;
        return pi * radius * radius;
    }
}
```

using System;

```
static double AreaOfTriangle(double baseLength, double height)
{
  return 0.5 * baseLength * height;
}
static void Main()
  Console.Write("Pick between the shapes rectangle, circle and triangle to calculate area: ");
  string shape = Console.ReadLine().ToLower();
  if (shape == "rectangle")
     Console.Write("Enter length: ");
     double length = Convert.ToDouble(Console.ReadLine());
     Console.Write("Enter width: ");
     double width = Convert.ToDouble(Console.ReadLine());
     double area = AreaOfRectangle(length, width);
     Console.WriteLine("Area of the rectangle: " + area);
  else if (shape == "circle")
     Console.Write("Enter radius: ");
     double radius = Convert.ToDouble(Console.ReadLine());
     double area = AreaOfCircle(radius);
     Console.WriteLine("Area of the circle: " + area);
  else if (shape == "triangle")
     Console.Write("Enter base: ");
     double baseLength = Convert.ToDouble(Console.ReadLine());
     Console.Write("Enter height: ");
     double height = Convert.ToDouble(Console.ReadLine());
     double area = AreaOfTriangle(baseLength, height);
     Console.WriteLine("Area of the triangle: " + area);
  }
  else
     Console.WriteLine("Your choice is invalid, kindly enter correct choice.");
```

```
}
```

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\leftarrow \rightarrow C ^{25} programiz.com/cpp-programming/online-compiler/
Programiz C++ Online Compiler
                                                                                                                                  Programiz PRO )
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                                                                           Output
                                                                                                                                           Clear
main.cpp
                                                                         Pick between the shapes rectangle, circle, and triangle to calculate area
4 using namespace std;
                                                                         Area of the circle: 153.934
 6 double areaOfRectangle(double length, double width) {
        return length * width;
                                                                         === Code Execution Successful ===
       const double PI = 3.1415;
        return PI * radius * radius;
15 double areaOfTriangle(double base, double height) {
        return 0.5 * base * height;
       string shape;
```

```
#include <iostream>
#include <cmath>
using namespace std;
double areaOfRectangle(double length, double width) {
  return length * width;
}
double areaOfCircle(double radius) {
  const double PI = 3.1415;
  return PI * radius * radius;
}
double areaOfTriangle(double base, double height) {
  return 0.5 * base * height;
}
int main() {
  string shape;
  cout << "Pick between the shapes rectangle, circle, and triangle to calculate area: ";
```

```
cin >> shape;
if (shape == "rectangle") {
  double length, width;
  cout << "Enter length: ";
  cin >> length;
  cout << "Enter width: ";
  cin >> width;
  double area = areaOfRectangle(length, width);
  cout << "Area of the rectangle: " << area << endl;
} else if (shape == "circle") {
  double radius;
  cout << "Enter radius: ";
  cin >> radius;
  double area = areaOfCircle(radius);
  cout << "Area of the circle: " << area << endl;
} else if (shape == "triangle") {
  double base, height;
  cout << "Enter base: ";
  cin >> base;
  cout << "Enter height: ";
  cin >> height;
  double area = areaOfTriangle(base, height);
  cout << "Area of the triangle: " << area << endl;
} else {
  cout << "Your choice is invalid, kindly enter a correct choice." << endl;
}
return 0;
```