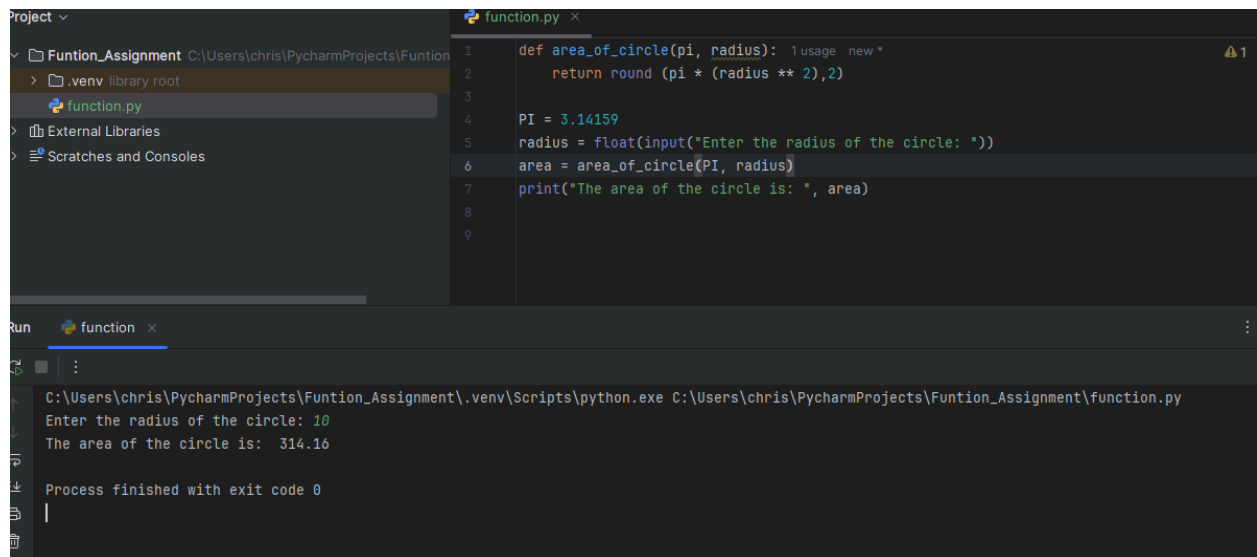


Area of a circle



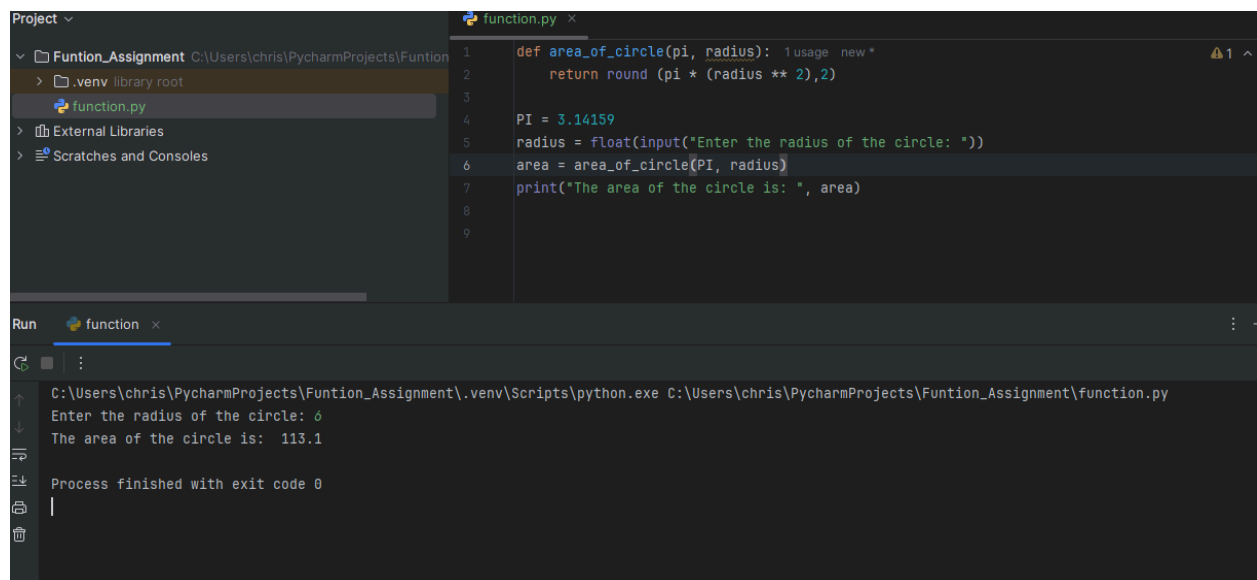
The image shows the PyCharm IDE interface. The top pane displays the code for `function.py`. The code defines a function `area_of_circle` that takes `pi` and `radius` as arguments and returns the rounded area. It then sets `PI = 3.14159`, prompts the user for the radius, and calculates the area.

```
1 def area_of_circle(pi, radius): 1 usage new *
2     return round(pi * (radius ** 2), 2)
3
4 PI = 3.14159
5 radius = float(input("Enter the radius of the circle: "))
6 area = area_of_circle(PI, radius)
7 print("The area of the circle is: ", area)
8
9
```

The bottom pane shows the Run console output. The command executed is `C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py`. The user input is `10`, and the output is `The area of the circle is: 314.16`. The process finished with exit code 0.

```
C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py
Enter the radius of the circle: 10
The area of the circle is: 314.16

Process finished with exit code 0
```



The image shows the PyCharm IDE interface. The top pane displays the code for `function.py`, which is identical to the one in the first image.

```
1 def area_of_circle(pi, radius): 1 usage new *
2     return round(pi * (radius ** 2), 2)
3
4 PI = 3.14159
5 radius = float(input("Enter the radius of the circle: "))
6 area = area_of_circle(PI, radius)
7 print("The area of the circle is: ", area)
8
9
```

The bottom pane shows the Run console output. The command executed is `C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py`. The user input is `6`, and the output is `The area of the circle is: 113.1`. The process finished with exit code 0.

```
C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py
Enter the radius of the circle: 6
The area of the circle is: 113.1

Process finished with exit code 0
```

```
1 def area_of_circle(pi, radius):  
2     return round(pi * (radius ** 2), 2)  
3  
4 PI = 3.14159  
5 radius = float(input("Enter the radius of the circle: "))  
6 area = area_of_circle(PI, radius)  
7 print("The area of the circle is: ", area)  
8  
9
```

Run function x

C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py
Enter the radius of the circle: 24
The area of the circle is: 1809.56

Process finished with exit code 0

```
1 def area_of_circle(pi, radius):  
2     return round(pi * (radius ** 2), 2)  
3  
4 PI = 3.14159  
5 radius = float(input("Enter the radius of the circle: "))  
6 area = area_of_circle(PI, radius)  
7 print("The area of the circle is: ", area)  
8  
9
```

Run function x

C:\Users\chris\PycharmProjects\Funtion_Assignment\.venv\Scripts\python.exe C:\Users\chris\PycharmProjects\Funtion_Assignment\function.py
Enter the radius of the circle: 2
The area of the circle is: 12.57

Process finished with exit code 0

Calculating Total

```
Enter the money amount: 20
Enter the tax percentage: 6
The total due is: 21.2

Process finished with exit code 0
|
```

```
Enter the money amount: 54
Enter the tax percentage: 4
The total due is: 56.16

Process finished with exit code 0
```

```
Enter the money amount: 68
Enter the tax percentage: 8
The total due is: 73.44

Process finished with exit code 0
|
```

Converting Fahrenheit to Celsius

```
Enter the temperature in fahrenheit: 32  
The temperature in celsius is: 0.0
```

```
Enter the temperature in fahrenheit: 80  
The temperature in celsius is: 26.67
```

```
Process finished with exit code 0
```

```
Enter the temperature in fahrenheit: 73  
The temperature in celsius is: 22.78
```

```
Process finished with exit code 0
```

```
Enter the temperature in fahrenheit: 42  
The temperature in celsius is: 5.56
```

```
Process finished with exit code 0
```