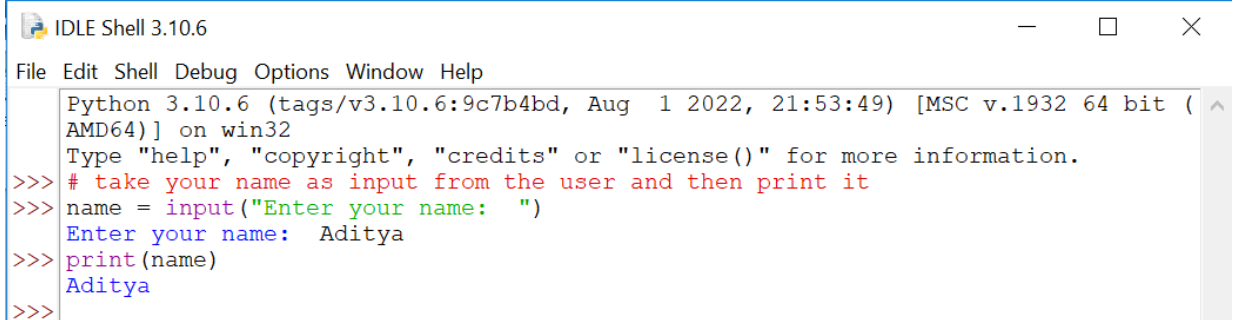


## Assignment - 4    Full Stack Web Development using Python    MySirG

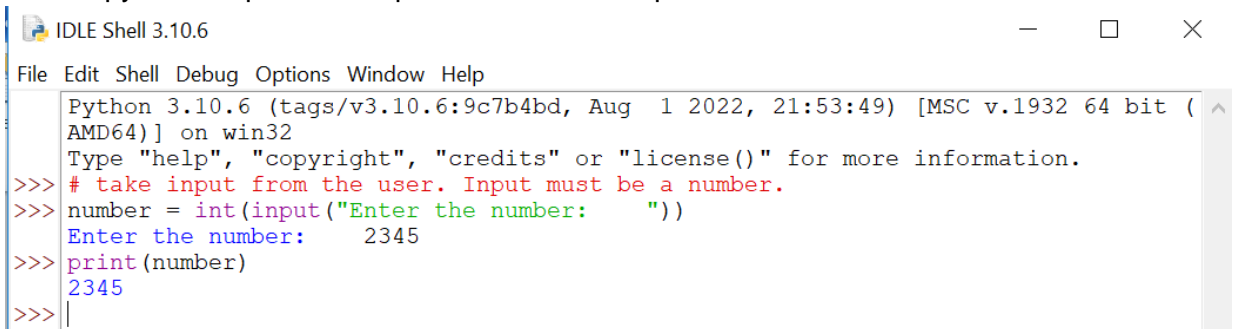
### User Input Problems

1. Write a python script to take your name as input from the user and then print it.



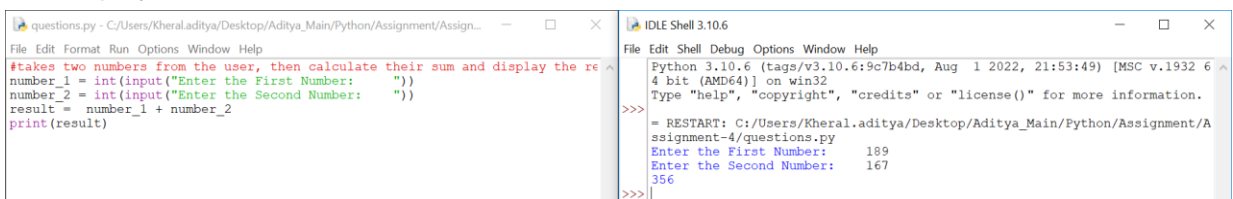
```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # take your name as input from the user and then print it
>>> name = input("Enter your name: ")
Enter your name: Aditya
>>> print(name)
Aditya
>>>
```

2. Write a python script to take input from the user. Input must be a number.



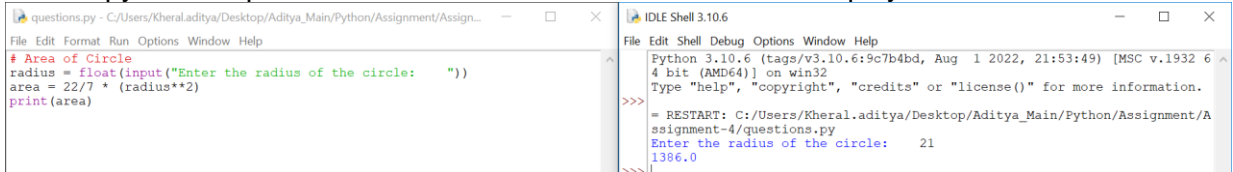
```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # take input from the user. Input must be a number.
>>> number = int(input("Enter the number: "))
Enter the number: 2345
>>> print(number)
2345
>>>
```

3. Write a python script which takes two numbers from the user, then calculate their sum and display the result.



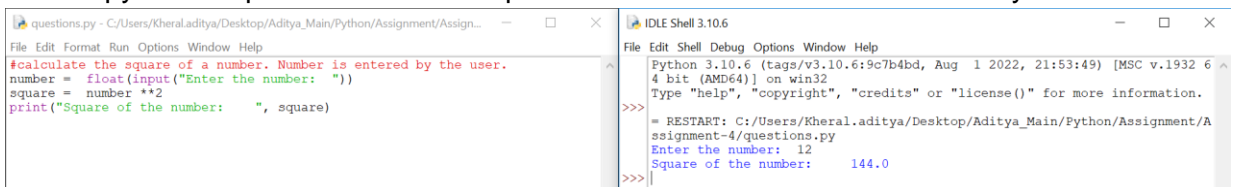
```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # takes two numbers from the user, then calculate their sum and display the result
>>> number_1 = int(input("Enter the First Number: "))
>>> number_2 = int(input("Enter the Second Number: "))
>>> result = number_1 + number_2
>>> print(result)
189
356
>>>
```

4. Write a python script which takes the radius from the user and display area of a circle.



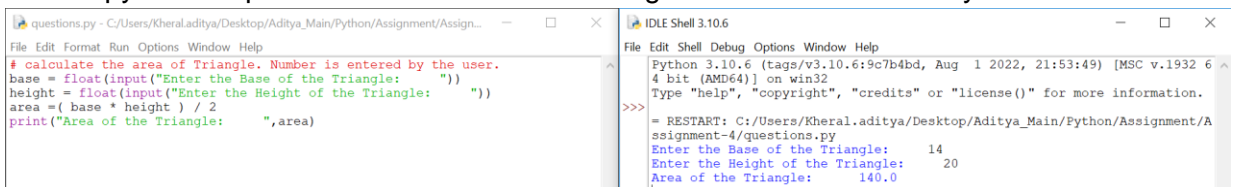
```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Area of Circle
>>> radius = float(input("Enter the radius of the circle: "))
>>> area = 22/7 * (radius**2)
>>> print(area)
1386.0
>>>
```

5. Write a python script to calculate the square of a number. Number is entered by the user.



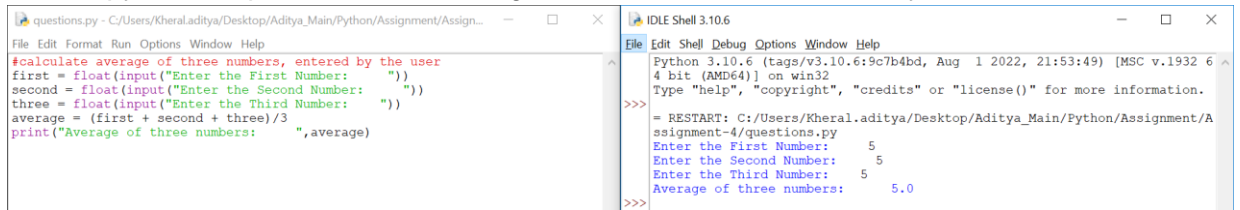
```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # calculate the square of a number. Number is entered by the user.
>>> number = float(input("Enter the number: "))
>>> square = number ** 2
>>> print("Square of the number: ", square)
12
144.0
>>>
```

6. Write a python script to calculate the area of Triangle. Number is entered by the user.



```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # calculate the area of Triangle. Number is entered by the user.
>>> base = float(input("Enter the Base of the Triangle: "))
>>> height = float(input("Enter the Height of the Triangle: "))
>>> area = (base * height) / 2
>>> print("Area of the Triangle: ", area)
14
20
140.0
>>>
```

7. Write a python script to calculate average of three numbers, entered by the user

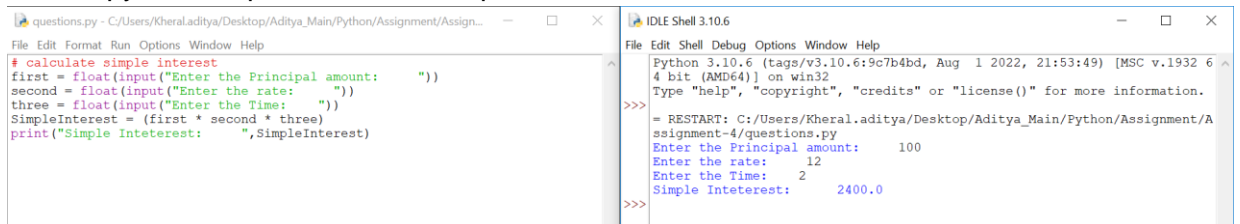


The screenshot shows a Python script in a file named 'questions.py' and its execution in the IDLE Shell 3.10.6. The script prompts the user to enter three numbers and calculates their average. The shell output shows the user entering three 5s, resulting in an average of 5.0.

```
File Edit Format Run Options Window Help
#calculate average of three numbers, entered by the user
first = float(input("Enter the First Number:  "))
second = float(input("Enter the Second Number:  "))
three = float(input("Enter the Third Number:  "))
average = (first + second + three)/3
print("Average of three numbers:  ",average)
```

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-4/questions.py
Enter the First Number: 5
Enter the Second Number: 5
Enter the Third Number: 5
Average of three numbers: 5.0
>>>
```

8. Write a python script to calculate simple interest

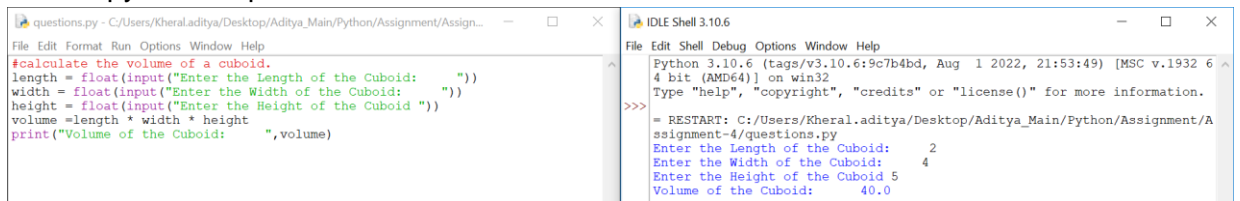


The screenshot shows a Python script in a file named 'questions.py' and its execution in the IDLE Shell 3.10.6. The script prompts the user to enter the principal amount, rate, and time, and calculates the simple interest. The shell output shows the user entering 100, 12, and 2, resulting in a simple interest of 2400.0.

```
File Edit Format Run Options Window Help
# calculate simple interest
first = float(input("Enter the Principal amount:  "))
second = float(input("Enter the rate:  "))
three = float(input("Enter the Time:  "))
SimpleInterest = (first * second * three)
print("Simple Intetereest:  ",SimpleInterest)
```

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-4/questions.py
Enter the Principal amount: 100
Enter the rate: 12
Enter the Time: 2
Simple Intetereest: 2400.0
>>>
```

9. Write a python script to calculate the volume of a cuboid.

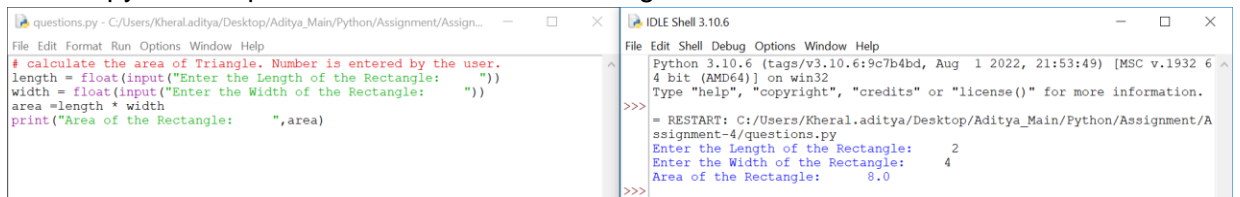


The screenshot shows a Python script in a file named 'questions.py' and its execution in the IDLE Shell 3.10.6. The script prompts the user to enter the length, width, and height of a cuboid, and calculates its volume. The shell output shows the user entering 2, 4, and 5, resulting in a volume of 40.0.

```
File Edit Format Run Options Window Help
#calculate the volume of a cuboid.
length = float(input("Enter the Length of the Cuboid:  "))
width = float(input("Enter the Width of the Cuboid:  "))
height = float(input("Enter the Height of the Cuboid "))
volume =length * width * height
print("Volume of the Cuboid:  ",volume)
```

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-4/questions.py
Enter the Length of the Cuboid: 2
Enter the Width of the Cuboid: 4
Enter the Height of the Cuboid 5
Volume of the Cuboid: 40.0
>>>
```

10. Write a python script to calculate area of a rectangle



The screenshot shows a Python script in a file named 'questions.py' and its execution in the IDLE Shell 3.10.6. The script prompts the user to enter the length and width of a rectangle, and calculates its area. The shell output shows the user entering 2 and 4, resulting in an area of 8.0.

```
File Edit Format Run Options Window Help
# calculate the area of Triangle. Number is entered by the user.
length = float(input("Enter the Length of the Rectangle:  "))
width = float(input("Enter the Width of the Rectangle:  "))
area =length * width
print("Area of the Rectangle:  ",area)
```

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-4/questions.py
Enter the Length of the Rectangle: 2
Enter the Width of the Rectangle: 4
Area of the Rectangle: 8.0
>>>
```