

# **PYTHON PROGRAMMING**

## **Lab Cycle- 2**

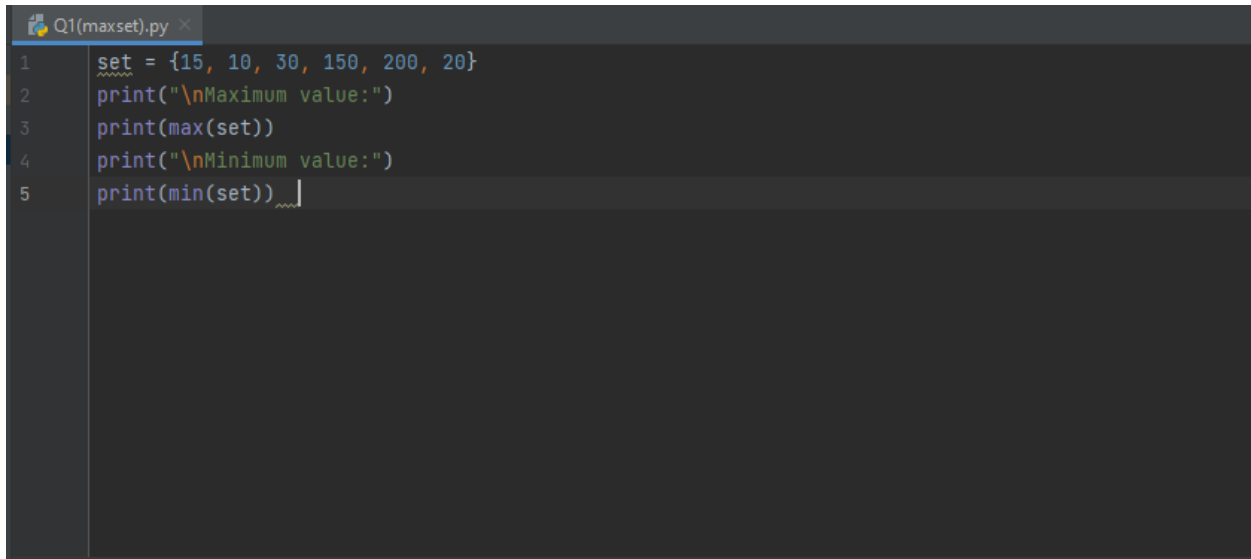
Submitted By,

Vaidehi M Nair

S9 INTMCA

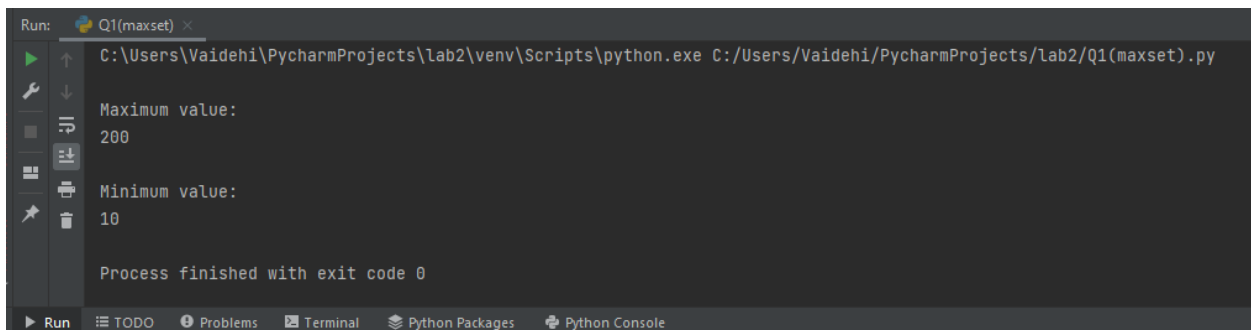
Roll No: 55

## 1. Write a Python code to find Max and Min in a Set



```
Q1(maxset).py x
1  set = {15, 10, 30, 150, 200, 20}
2  print("\nMaximum value:")
3  print(max(set))
4  print("\nMinimum value:")
5  print(min(set))
```

## OUTPUT



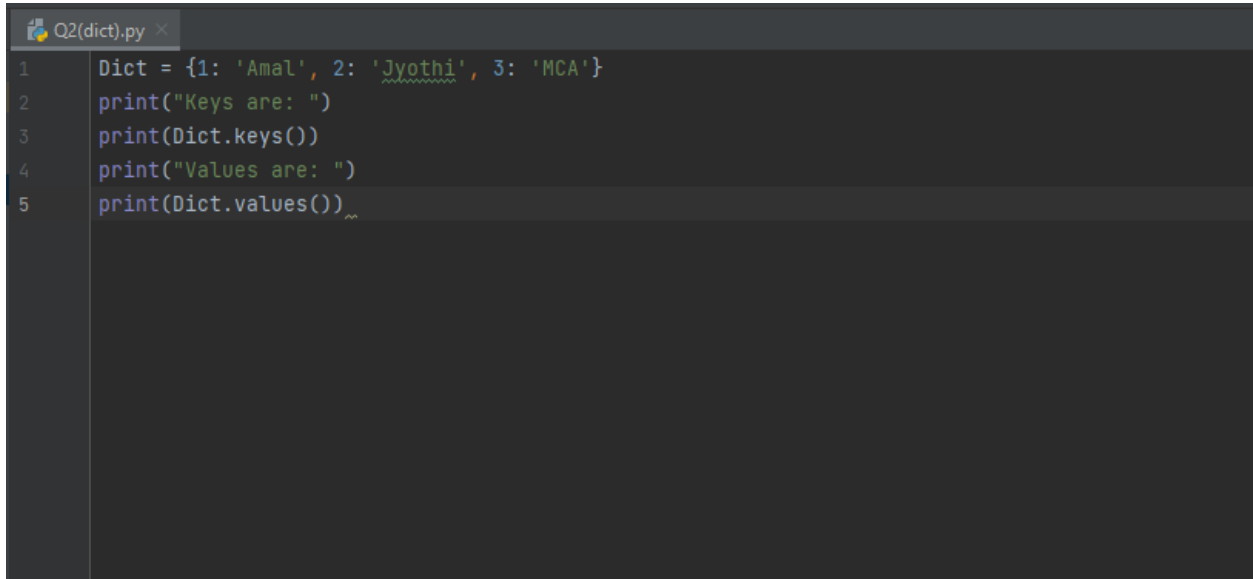
```
Run: Q1(maxset) x
C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/lab2/Q1(maxset).py

Maximum value:
200

Minimum value:
10

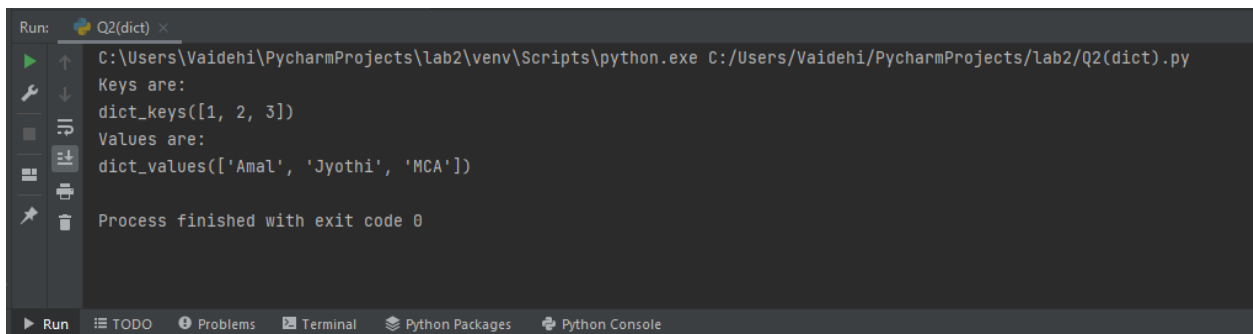
Process finished with exit code 0
```

## 2. Write a Python code to create a dictionary and display its keys and values

A screenshot of a code editor window titled 'Q2(dict).py'. The code defines a dictionary 'Dict' with three items: 1: 'Amal', 2: 'Jyothi', and 3: 'MCA'. It then prints the keys and values of the dictionary. The code is as follows:

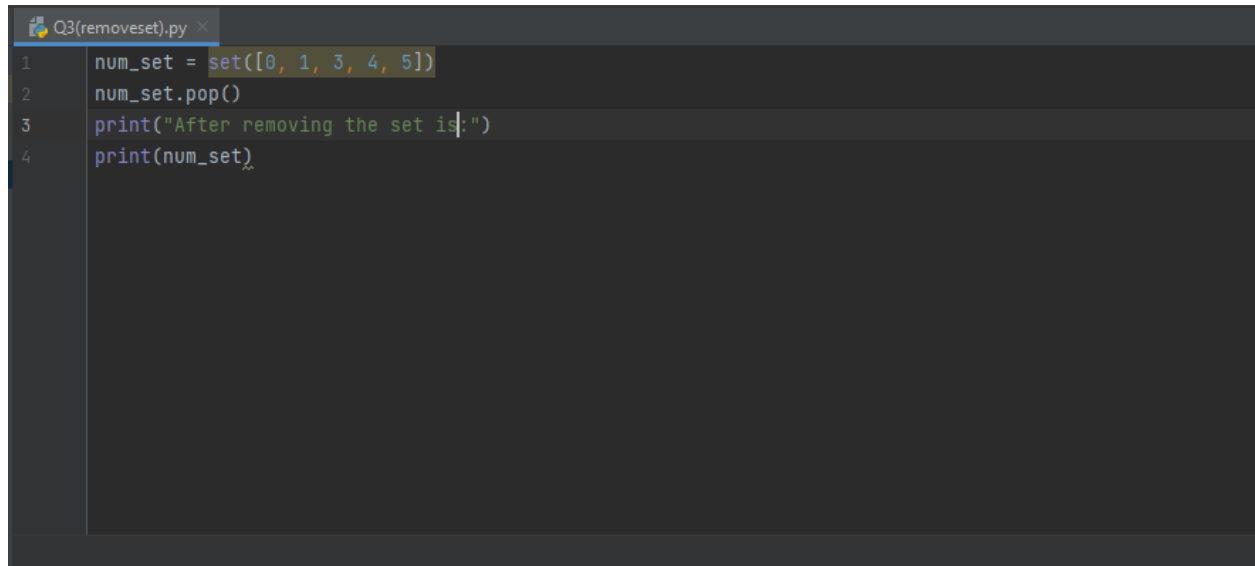
```
1 Dict = {1: 'Amal', 2: 'Jyothi', 3: 'MCA'}
2 print("Keys are: ")
3 print(Dict.keys())
4 print("Values are: ")
5 print(Dict.values())
```

## OUTPUT

A screenshot of a terminal window showing the output of the Python script. The output is as follows:

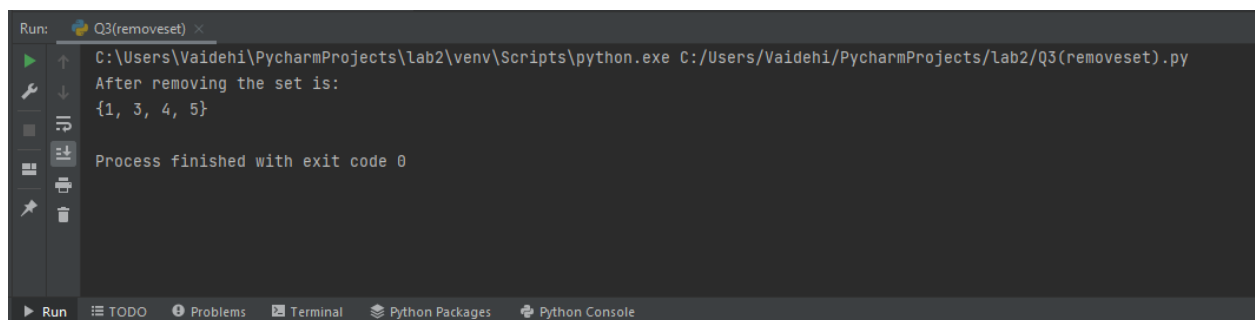
```
Run: C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/Lab2/Q2(dict).py
Keys are:
dict_keys([1, 2, 3])
Values are:
dict_values(['Amal', 'Jyothi', 'MCA'])
Process finished with exit code 0
```

**3. Write a Python code to remove items from set**



```
Q3(removeaset).py x
1 num_set = set([0, 1, 3, 4, 5])
2 num_set.pop()
3 print("After removing the set is:")
4 print(num_set)
```

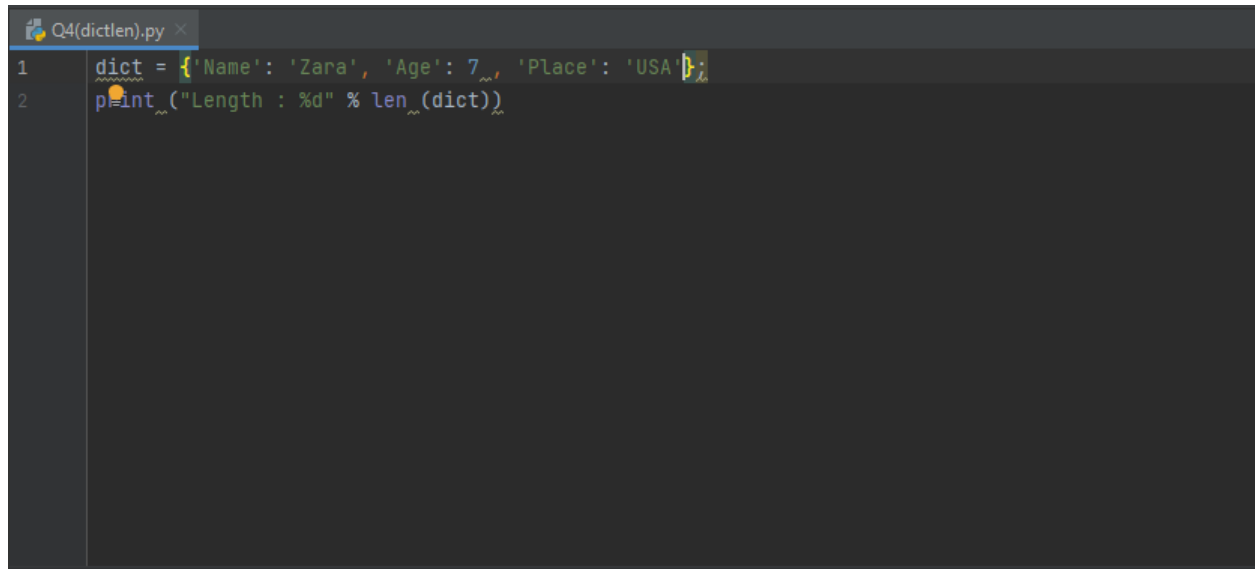
## OUTPUT



```
Run: Q3(removeaset) x
C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/lab2/Q3(removeaset).py
After removing the set is:
{1, 3, 4, 5}

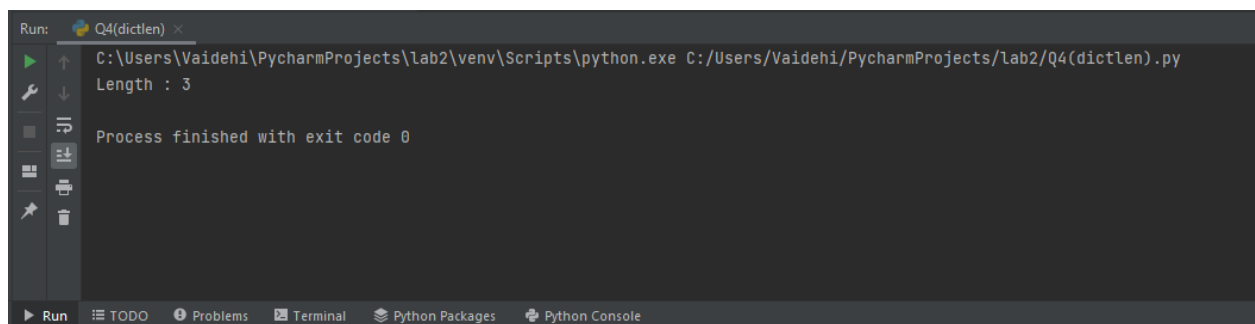
Process finished with exit code 0
```

**4. Write a Python code to find the size of dictionary**

A screenshot of a code editor window titled 'Q4(dictlen).py'. The code consists of two lines: line 1 defines a dictionary 'dict' with keys 'Name', 'Age', and 'Place' and values 'Zara', 7, and 'USA' respectively; line 2 prints the length of the dictionary using the format string "Length : %d" % len(dict).

```
1 dict = {'Name': 'Zara', 'Age': 7, 'Place': 'USA'}  
2 print("Length : %d" % len(dict))
```

## OUTPUT

A screenshot of the 'Run' console in an IDE. It shows the command to run the script and the output 'Length : 3'. The process finished with exit code 0.

```
Run: C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/lab2/Q4(dictlen).py  
Length : 3  
Process finished with exit code 0
```

**5. Write a Python program to convert the temperature in degree centigrade to fahrenheit**

```
Q4(temp).py ×
1 celsius = float(input('Enter temperature in Celsius: '))
2 fahrenheit = (celsius * 1.8) + 32
3 print('%0.1f degree Fahrenheit' % (fahrenheit))
```

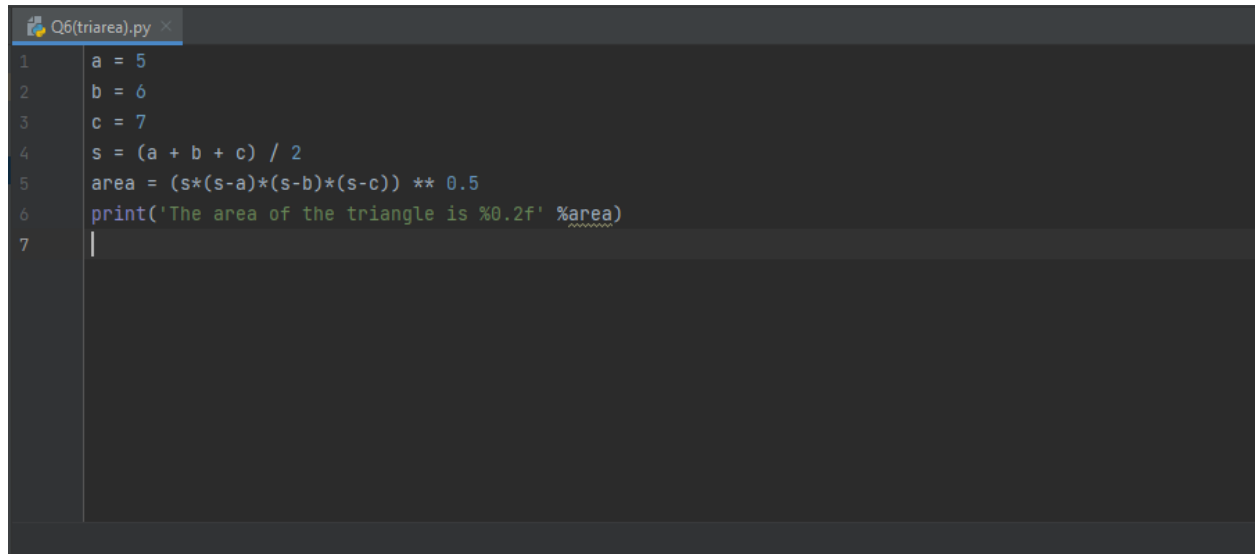
## OUTPUT

```
Run: Q4(temp) ×
C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/lab2/Q4(temp).py
Enter temperature in Celsius: 80
122.0 degree Fahrenheit

Process finished with exit code 0

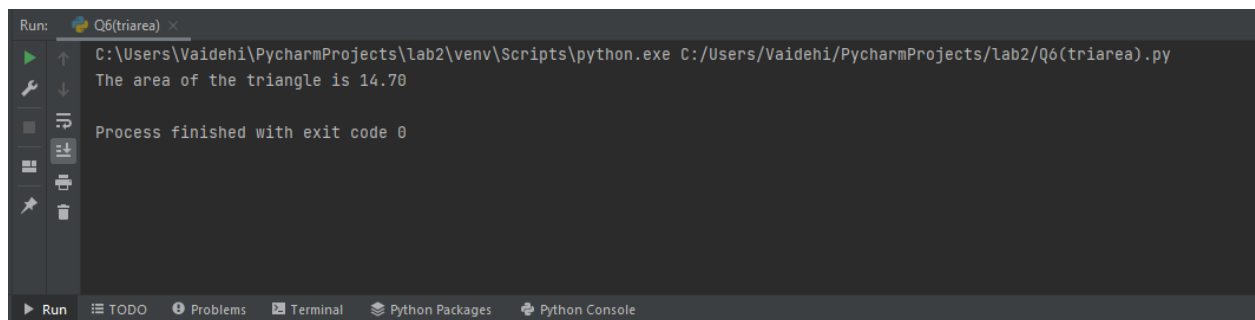
Run | TODO | Problems | Terminal | Python Packages | Python Console
```

**6. Write a Python program to find area of a triangle whose sides are given**



```
Q6(triarea).py x
1  a = 5
2  b = 6
3  c = 7
4  s = (a + b + c) / 2
5  area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
6  print('The area of the triangle is %0.2f' %area)
7  |
```

## OUTPUT



```
Run: Q6(triarea) x
C:\Users\Vaidehi\PycharmProjects\lab2\venv\Scripts\python.exe C:/Users/Vaidehi/PycharmProjects/lab2/Q6(triarea).py
The area of the triangle is 14.70
Process finished with exit code 0
```

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