

Assignment # 3

Python Programming Language

Name: BILAWAL MEHMOOD

1. Write a Python program to print the following string in a specific format (see the output).

Twinkle, twinkle, little star, How I wonder what you are! Up above the world so high, like a diamond in the sky. Twinkle, twinkle, little star, How I wonder what you are

2. Write a Python program to get the Python version you are using
3. Write a Python program to display the current date and time.
4. Write a Python program which accepts the radius of a circle from the user and compute the area.
5. Write a Python program which accepts the user's first and last name and print them in reverse order with a space between them.
6. Write a python program which takes two inputs from user and print them addition
7. Write a program which takes 5 inputs from user for different subject's marks, total it and generate mark sheet using grades?
8. Write a program which take input from user and identify that the given number is even or odd?

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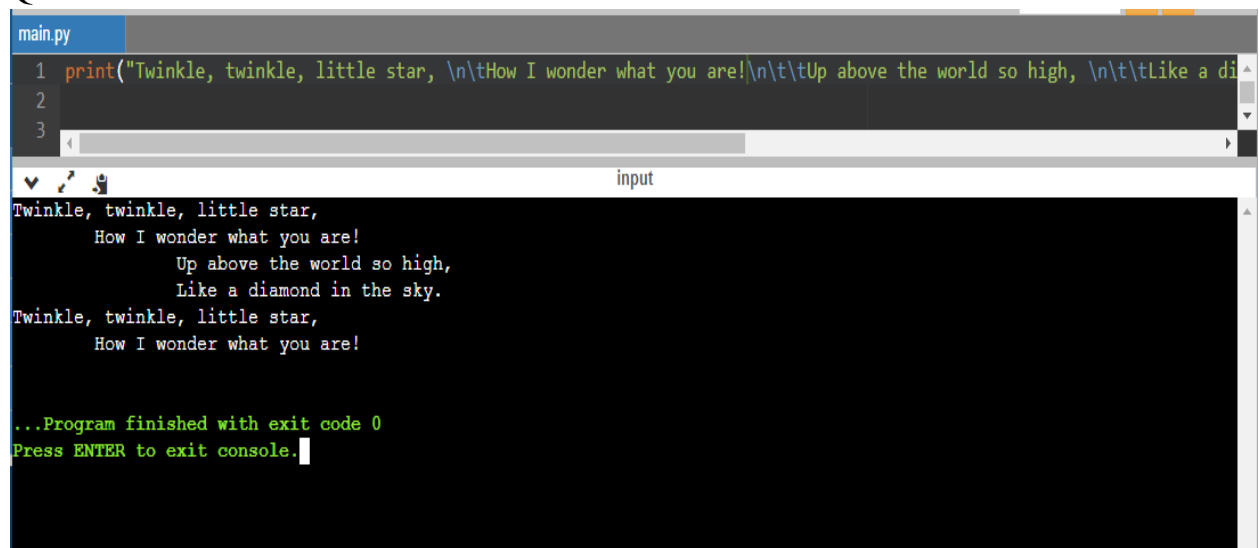
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9. Write a program which print the length of the list?
10. Write a Python program to sum all the numeric items in a list?
11. Write a Python program to get the largest number from a numeric list.
12. Take a list, say for example this one: a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]
Write a program that prints out all the elements of the list that are less than

ANSWER:

Q1



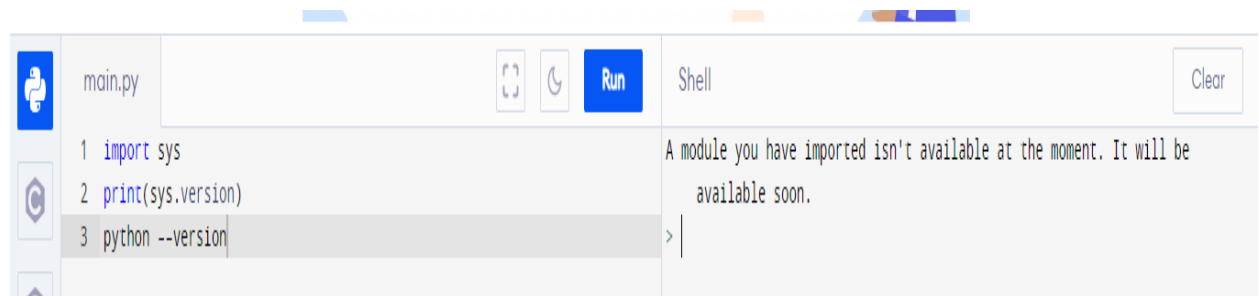
```
main.py
1 print("Twinkle, twinkle, little star, \n\tHow I wonder what you are!\n\t\tUp above the world so high, \n\t\tLike a di
2
3
```

input

```
Twinkle, twinkle, little star,
    How I wonder what you are!
        Up above the world so high,
            Like a diamond in the sky.
Twinkle, twinkle, little star,
    How I wonder what you are!

...Program finished with exit code 0
Press ENTER to exit console.
```

Q2



```
main.py
1 import sys
2 print(sys.version)
3 python --version
```

Run

Shell

A module you have imported isn't available at the moment. It will be available soon.

> |

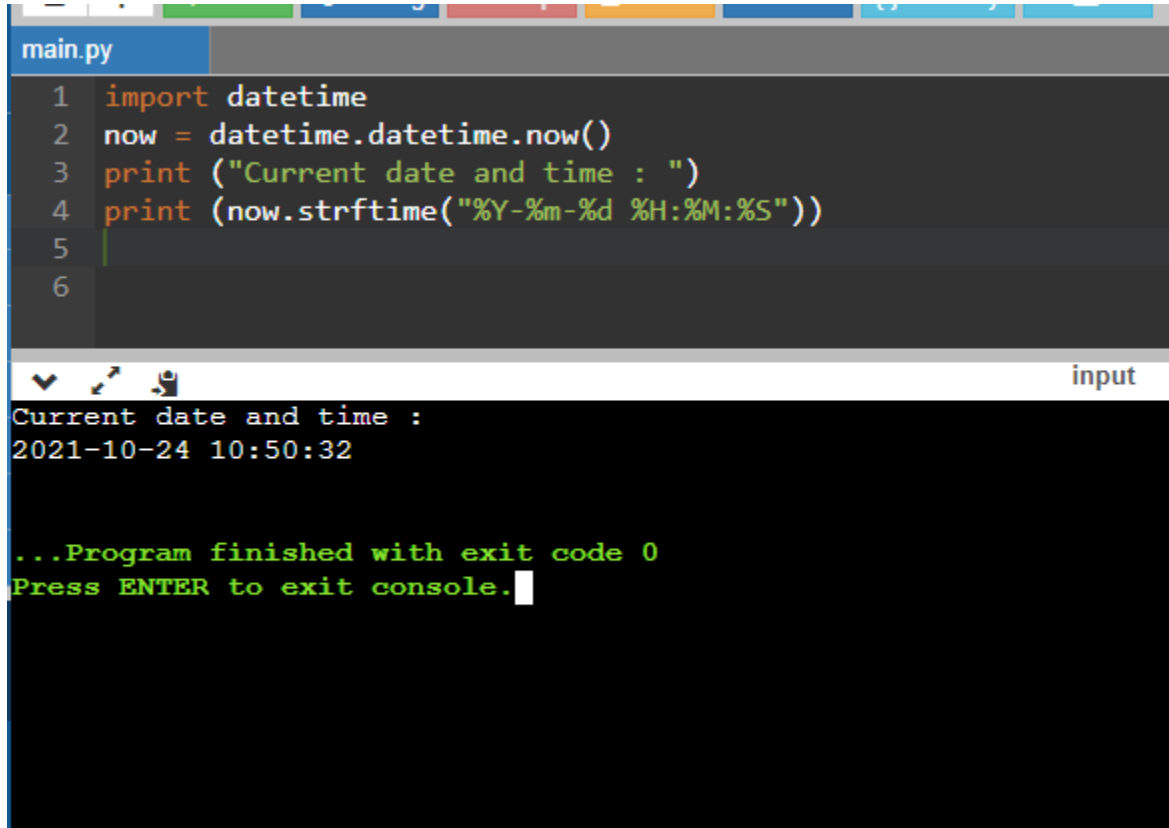
Clear

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Q3



The screenshot shows a Python IDE with a file named 'main.py'. The code in the editor is as follows:

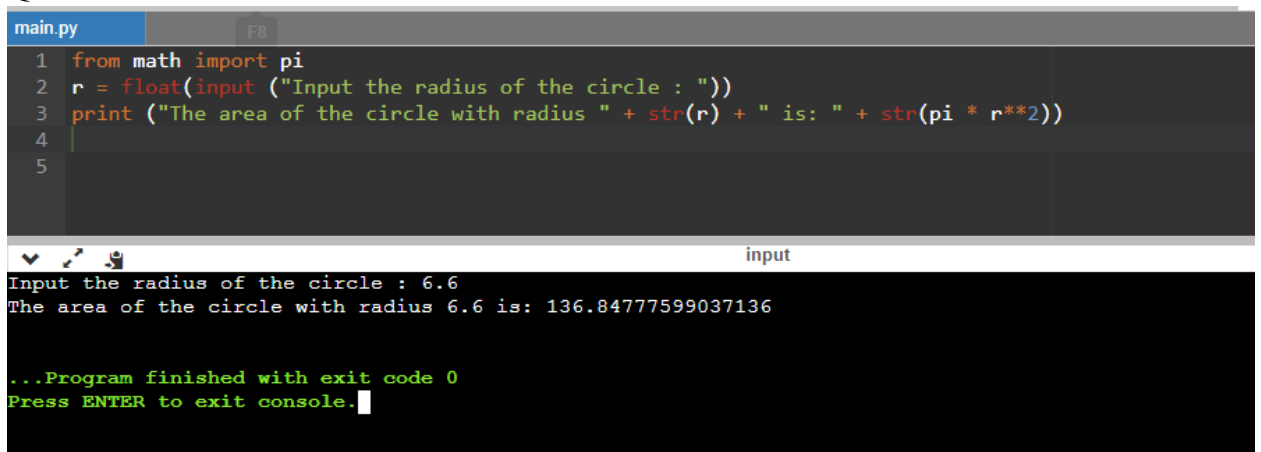
```
1 import datetime
2 now = datetime.datetime.now()
3 print ("Current date and time : ")
4 print (now.strftime("%Y-%m-%d %H:%M:%S"))
5
6
```

Below the editor, the console output is displayed:

```
Current date and time :
2021-10-24 10:50:32

...Program finished with exit code 0
Press ENTER to exit console.
```

Q4



The screenshot shows a Python IDE with a file named 'main.py'. The code in the editor is as follows:

```
1 from math import pi
2 r = float(input ("Input the radius of the circle : "))
3 print ("The area of the circle with radius " + str(r) + " is: " + str(pi * r**2))
4
5
```

Below the editor, the console output is displayed:

```
Input the radius of the circle : 6.6
The area of the circle with radius 6.6 is: 136.84777599037136

...Program finished with exit code 0
Press ENTER to exit console.
```

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Q5

```
main.py
1 fname = input("Input your First Name : ")
2 lname = input("Input your Last Name : ")
3 print ("Hello " + lname + " " + fname)
4 |
```

Input your First Name : BILAWAL
Input your Last Name : MEHMOOD
Hello MEHMOOD BILAWAL

...Program finished with exit code 0
Press ENTER to exit console.

Q6

main.py		Run	Shell
1	a = int(input("enter first number: "))		enter first number: 3
2	b = int(input("enter second number: "))		enter second number: 4
3	sum = a + b;		sum: 7
4	print("sum:", sum)		>

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Q7

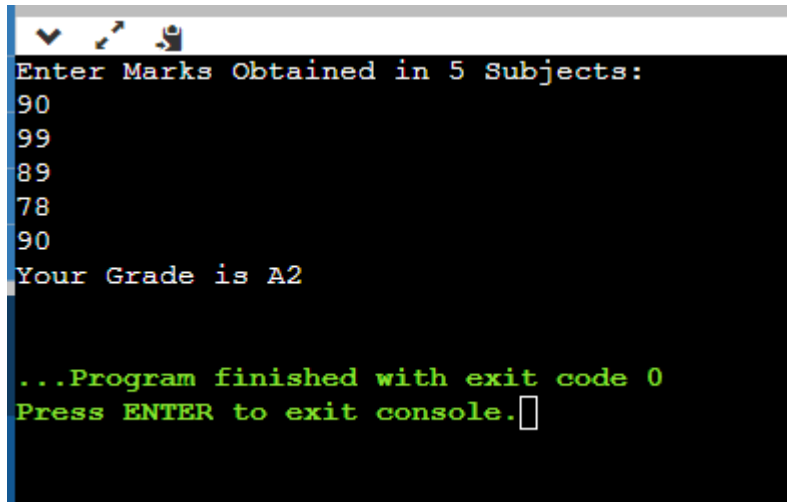
```
main.py  MIAN.py  ⋮
1  print("Enter Marks Obtained in 5 Subjects: ");
2  markOne = int(input())
3  markTwo = int(input())
4  markThree = int(input())
5  markFour = int(input())
6  markFive = int(input())
7
8  tot = markOne+markTwo+markThree+markFour+markFive
9  avg = tot/5
10
11  if avg>=91 and avg<=100:
12      print("Your Grade is A1")
13  elif avg>=81 and avg<91:
14      print("Your Grade is A2")
15  elif avg>=71 and avg<81:
16      print("Your Grade is B1")
17  elif avg>=61 and avg<71:
18      print("Your Grade is B2")
19  elif avg>=51 and avg<61:
20      print("Your Grade is C1")
21  elif avg>=41 and avg<51:
22      print("Your Grade is C2")
23  elif avg>=33 and avg<41:
24      print("Your Grade is D")
25  elif avg>=21 and avg<33:
26      print("Your Grade is E1")
27  elif avg>=0 and avg<21:
28      print("Your Grade is E2")
29  else:
30      print("Invalid Input!");
```

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OUTPUT



```
Enter Marks Obtained in 5 Subjects:
90
99
89
78
90
Your Grade is A2

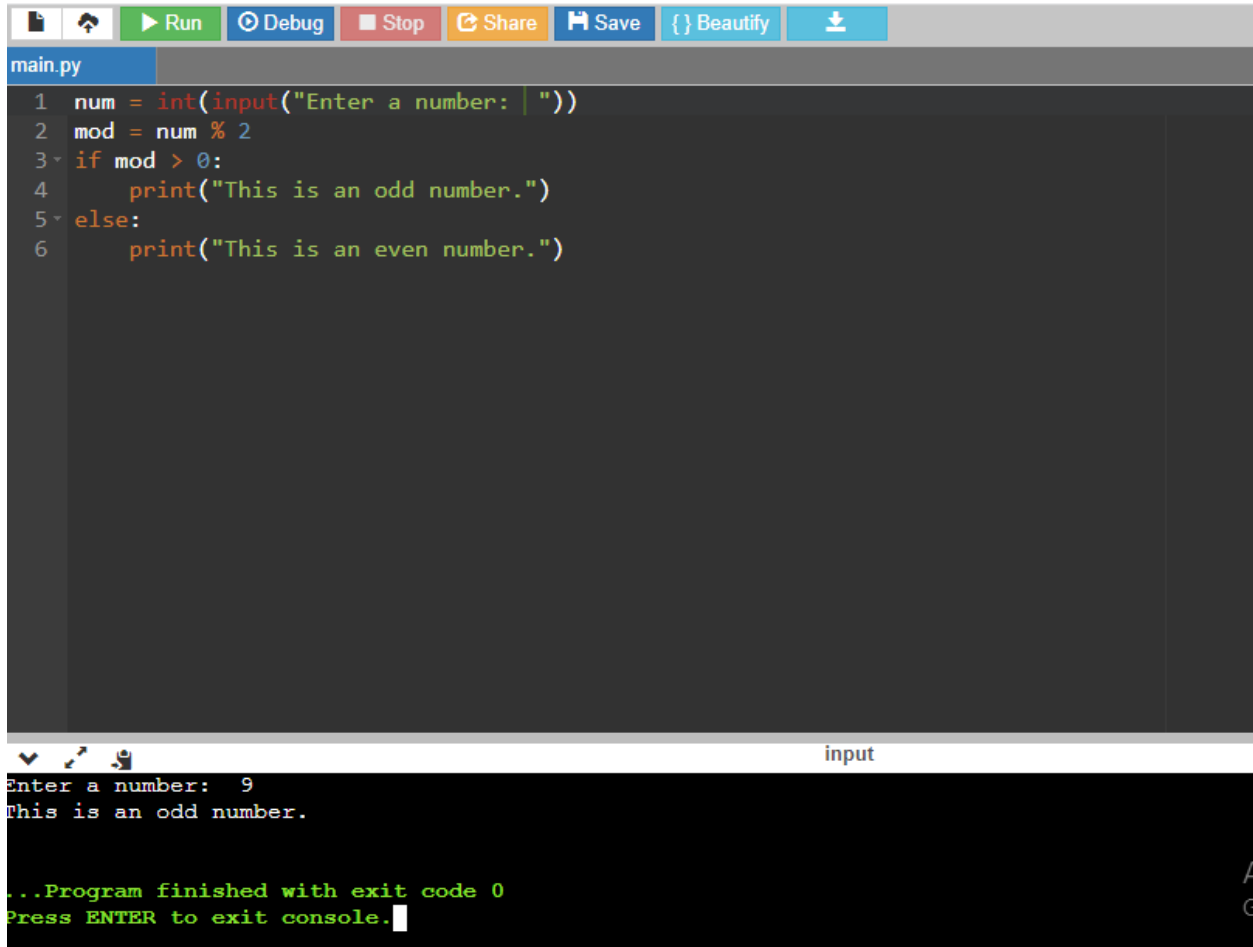
...Program finished with exit code 0
Press ENTER to exit console.
```

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Q8



```
main.py
1 num = int(input("Enter a number: "))
2 mod = num % 2
3 if mod > 0:
4     print("This is an odd number.")
5 else:
6     print("This is an even number.")
```

input

```
Enter a number: 9
This is an odd number.

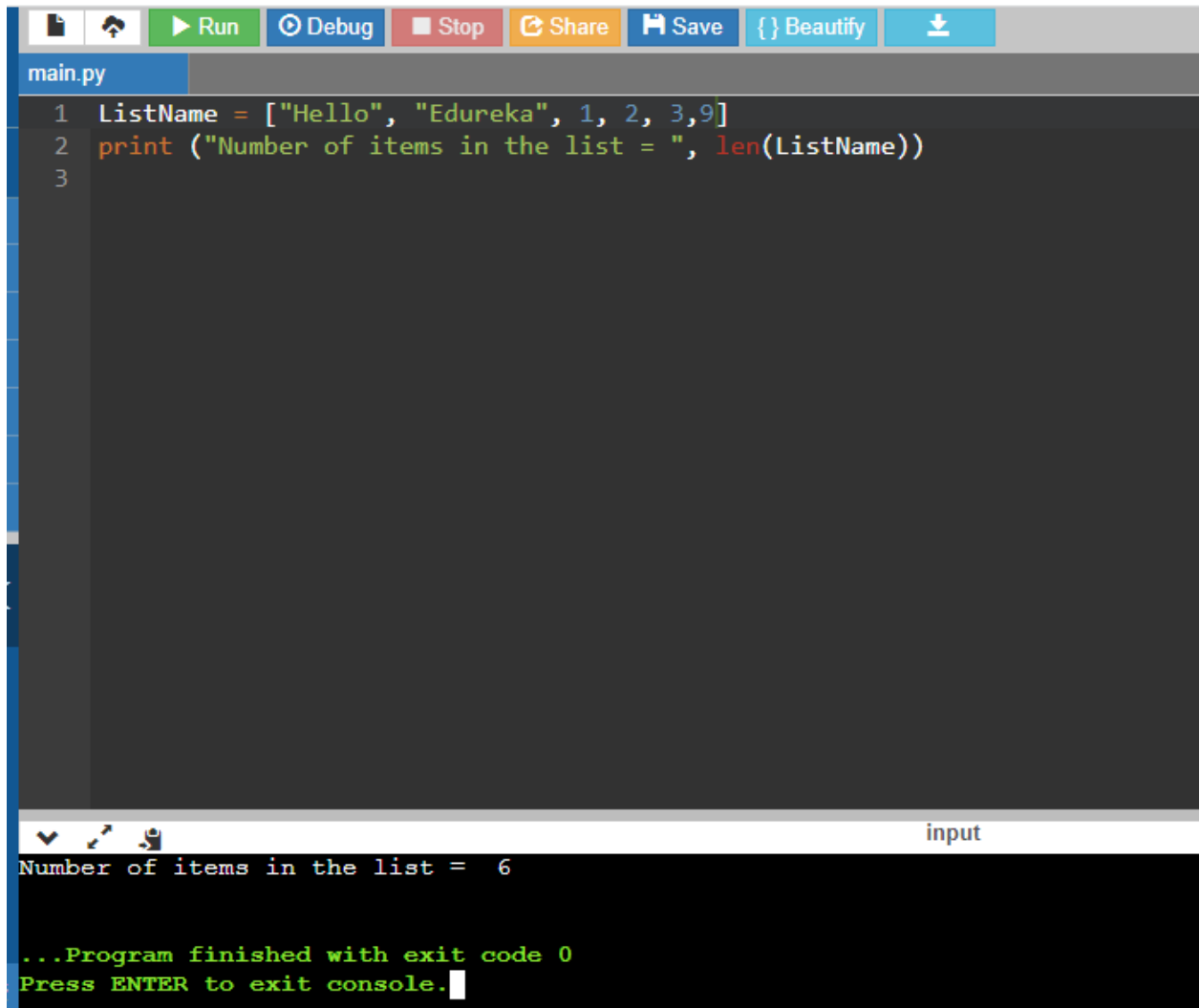
...Program finished with exit code 0
Press ENTER to exit console.
```

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Q9



The screenshot shows a Python IDE interface. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. Below the toolbar, the file name 'main.py' is displayed. The code editor contains the following Python code:

```
1 ListName = ["Hello", "Edureka", 1, 2, 3,9]
2 print ("Number of items in the list = ", len(ListName))
3
```

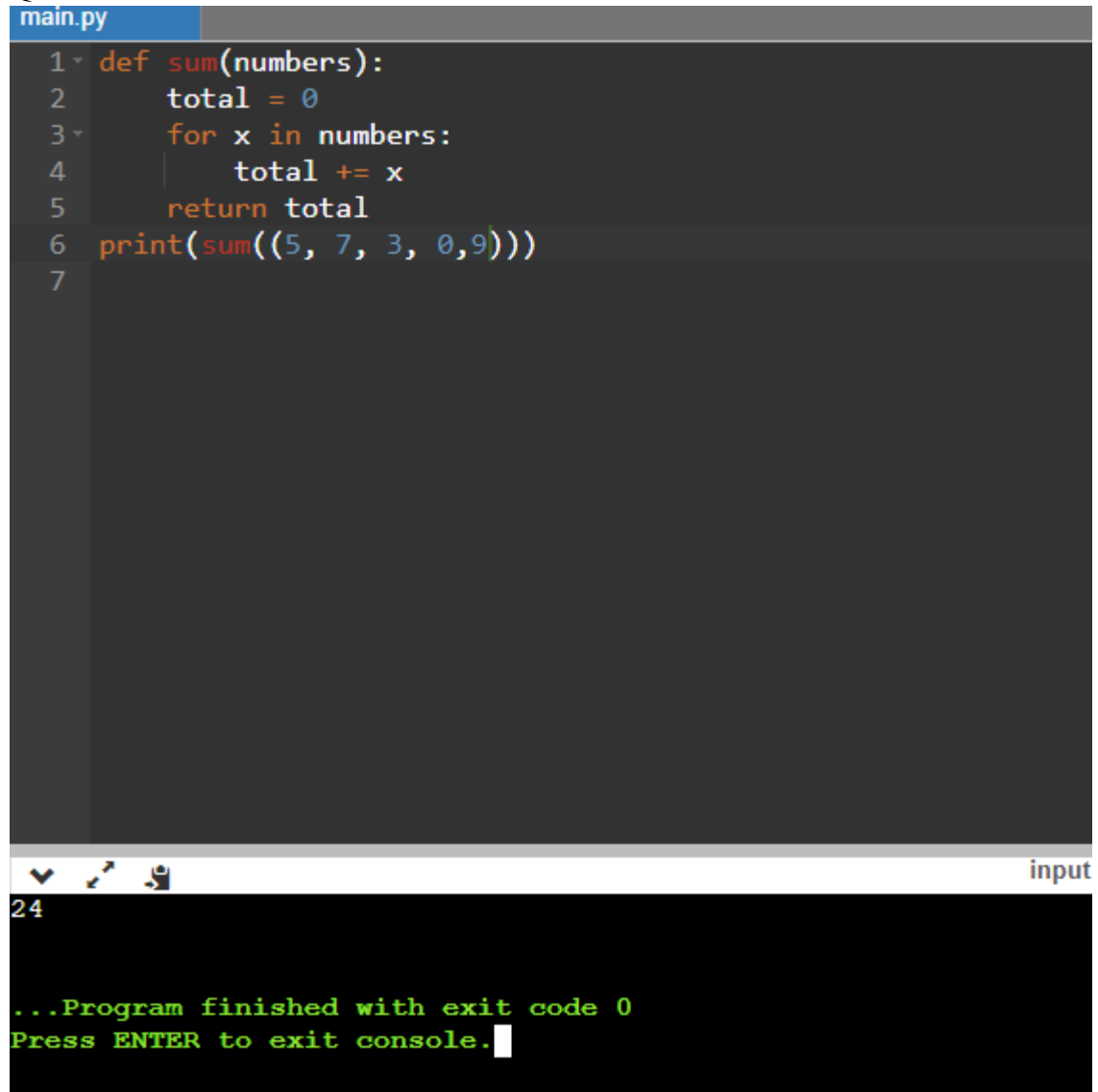
At the bottom of the IDE, there is a console window. It shows the output of the program: 'Number of items in the list = 6'. Below this, it says '...Program finished with exit code 0' and 'Press ENTER to exit console.'.

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Q10



The image shows a screenshot of a Python IDE. The top part is a code editor with a dark background. The file name 'main.py' is visible in the top left corner. The code is as follows:

```
1 def sum(numbers):
2     total = 0
3     for x in numbers:
4         total += x
5     return total
6 print(sum((5, 7, 3, 0,9)))
7
```

The bottom part of the image shows a terminal window with a black background. It displays the output of the program:

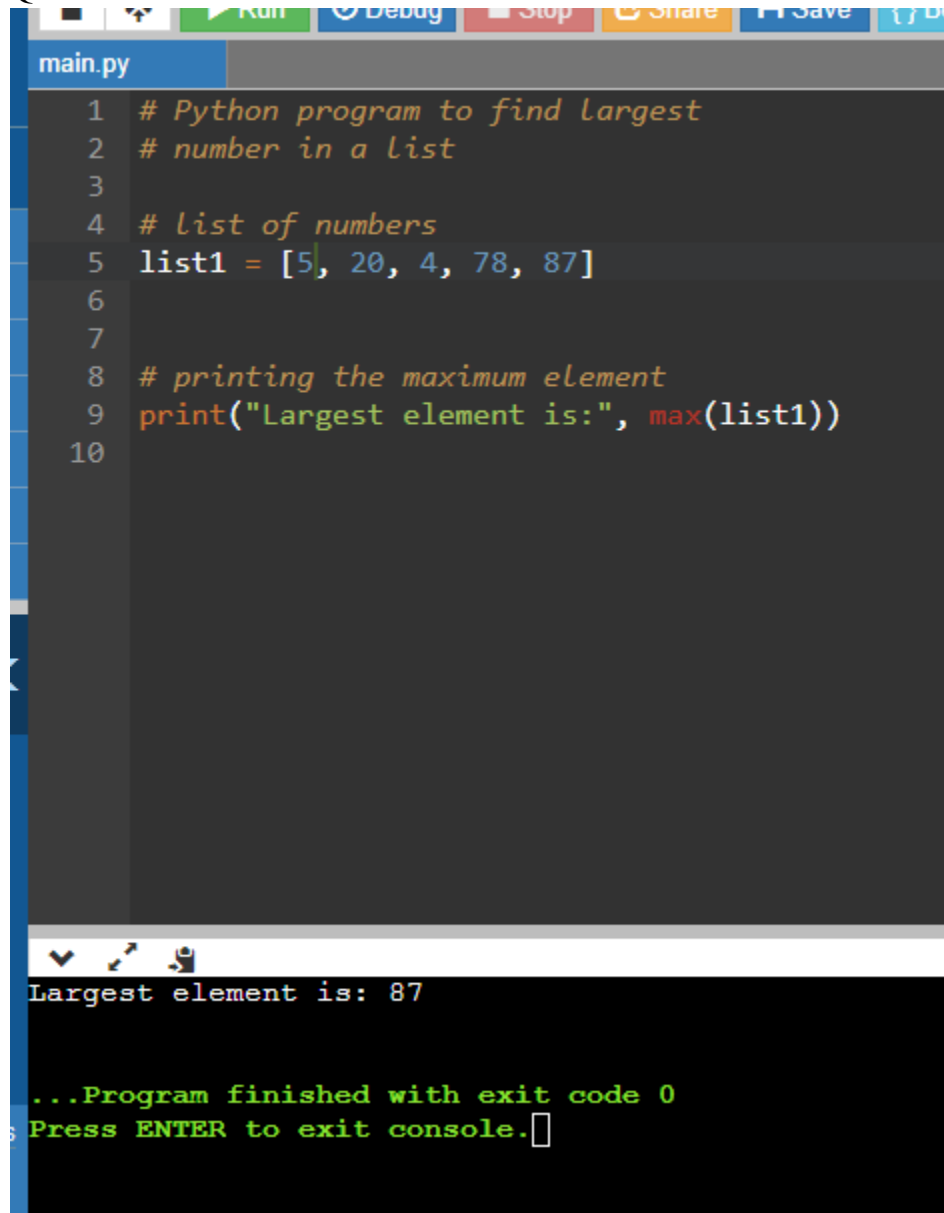
```
24
...Program finished with exit code 0
Press ENTER to exit console.
```

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Q11



The image shows a screenshot of a Python IDE. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, and a Breakpoint icon. Below the toolbar, the file name 'main.py' is displayed. The main editor area contains the following Python code:

```
1  # Python program to find largest
2  # number in a list
3
4  # list of numbers
5  list1 = [5, 20, 4, 78, 87]
6
7
8  # printing the maximum element
9  print("Largest element is:", max(list1))
10
```

Below the editor, there is a console window. It displays the output of the program: 'Largest element is: 87'. Below the output, it says '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor icon.

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Q12

```
main.py
1 a = [1, 1, 7, 3, 6, 9, 18, 21, 34, 55, 89]
2 b = []
3 for i in a:
4     if i < 5:
5         b.append(i)
6 print(b)
7
8
9
```

[1, 1, 3]

...Program finished with exit code 0
Press ENTER to exit console.