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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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?

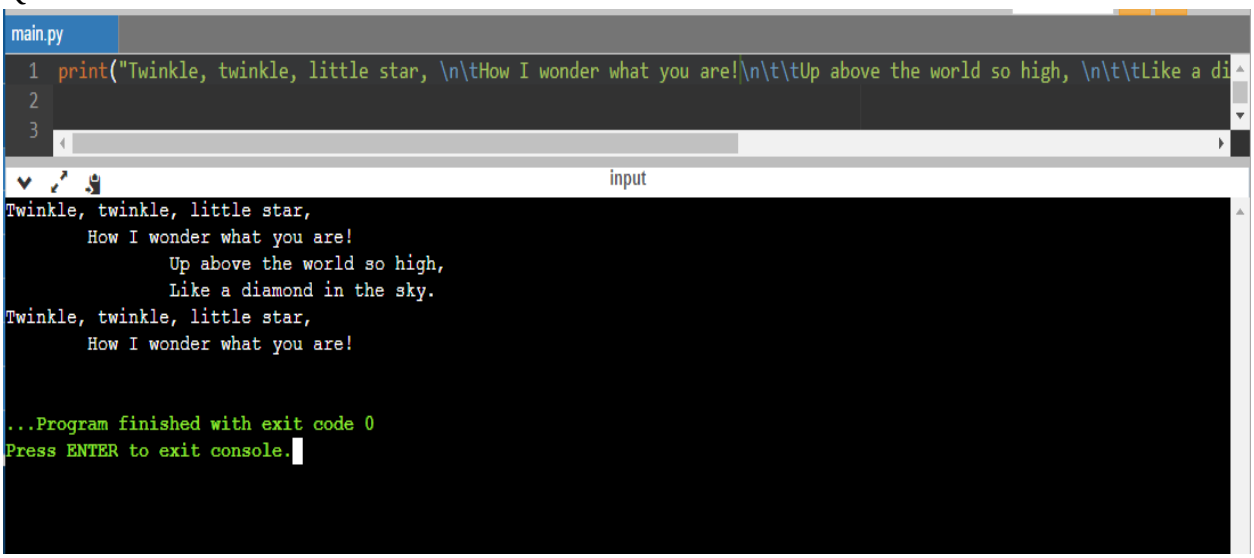
11. Write a Python program to get the largest number from a numeric list.

12. Take a list, say for example this one: a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]

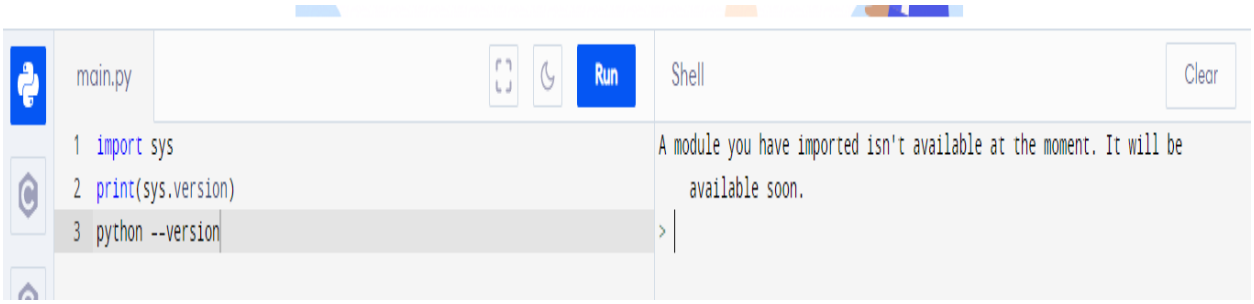
Write a program that prints out all the elements of the list that are less than

ANSWER:

Q1



Q2



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Q3

main.py

```
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
```

input

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


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

Q4

main.py

```
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
```

input

```
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: "))
2  b = int(input("enter second number: "))
3  sum = a + b;
4  print("sum:", sum)
```

```
enter first number: 3
enter second number: 4
sum: 7
>
```

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Q7

main.py MIAN.py

```
print("Enter Marks Obtained in 5 Subjects: ");
markOne = int(input())
markTwo = int(input())
markThree = int(input())
markFour = int(input())
markFive = int(input())

tot = markOne+markTwo+markThree+markFour+markFive
avg = tot/5

if avg>=91 and avg<=100:
    print("Your Grade is A1")
elif avg>=81 and avg<91:
    print("Your Grade is A2")
elif avg>=71 and avg<81:
    print("Your Grade is B1")
elif avg>=61 and avg<71:
    print("Your Grade is B2")
elif avg>=51 and avg<61:
    print("Your Grade is C1")
elif avg>=41 and avg<51:
    print("Your Grade is C2")
elif avg>=33 and avg<41:
    print("Your Grade is D")
elif avg>=21 and avg<33:
    print("Your Grade is E1")
elif avg>=0 and avg<21:
    print("Your Grade is E2")
else:
    print("Invalid Input!");
```

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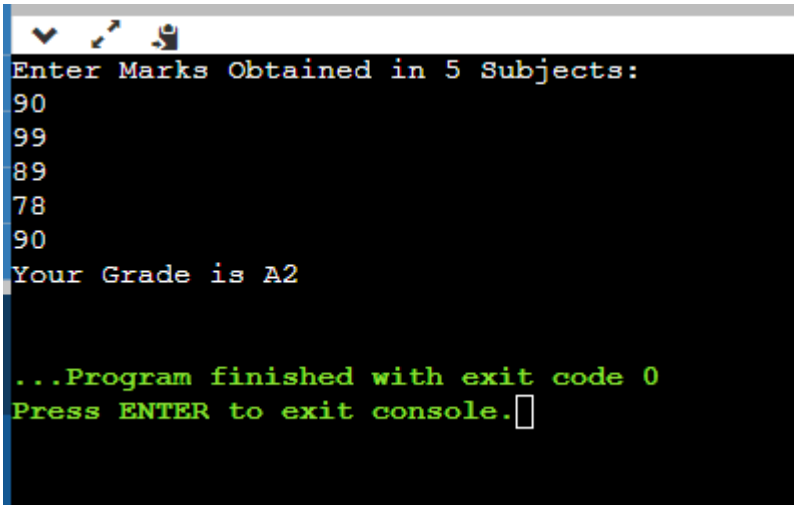
OUTPUT



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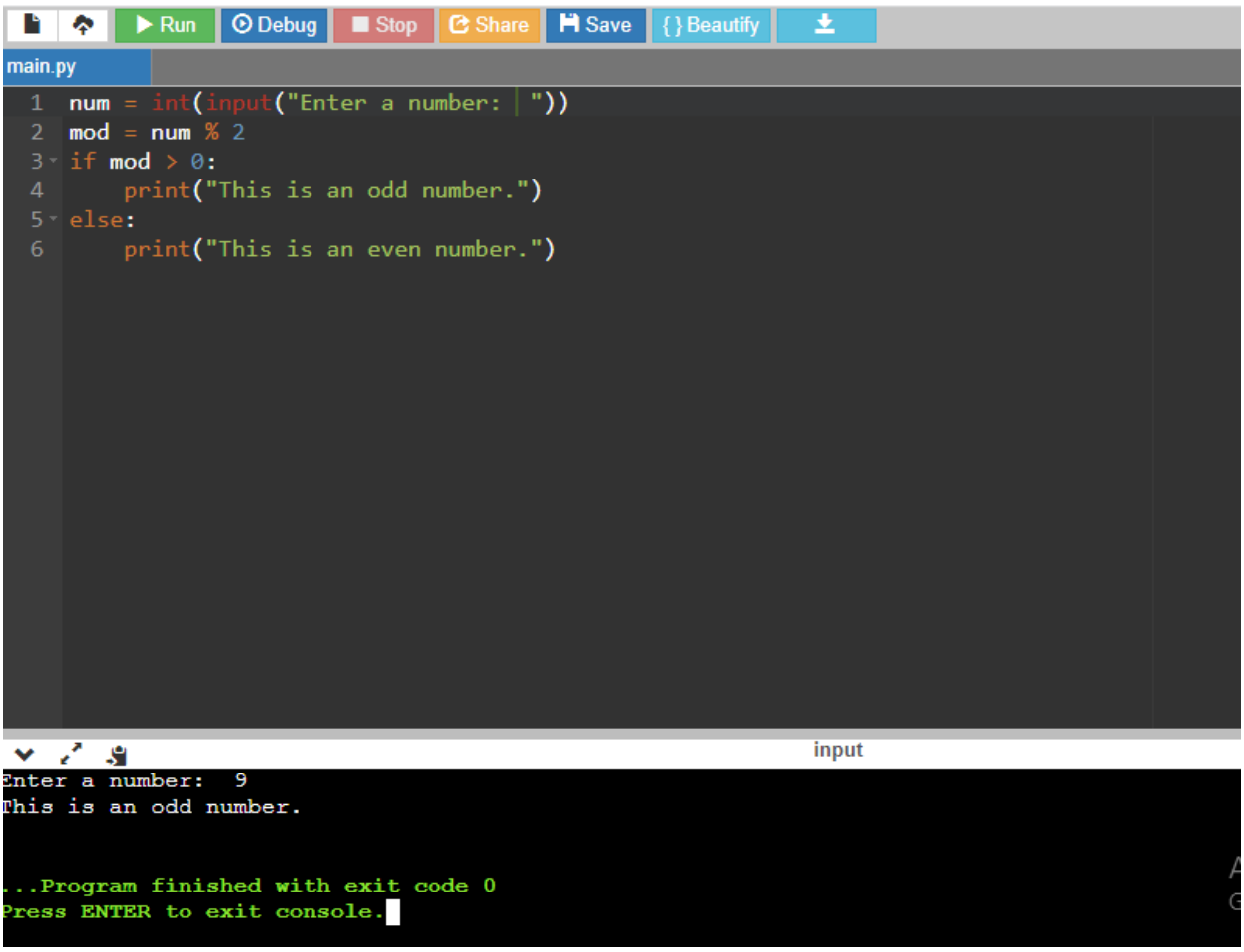
Q8



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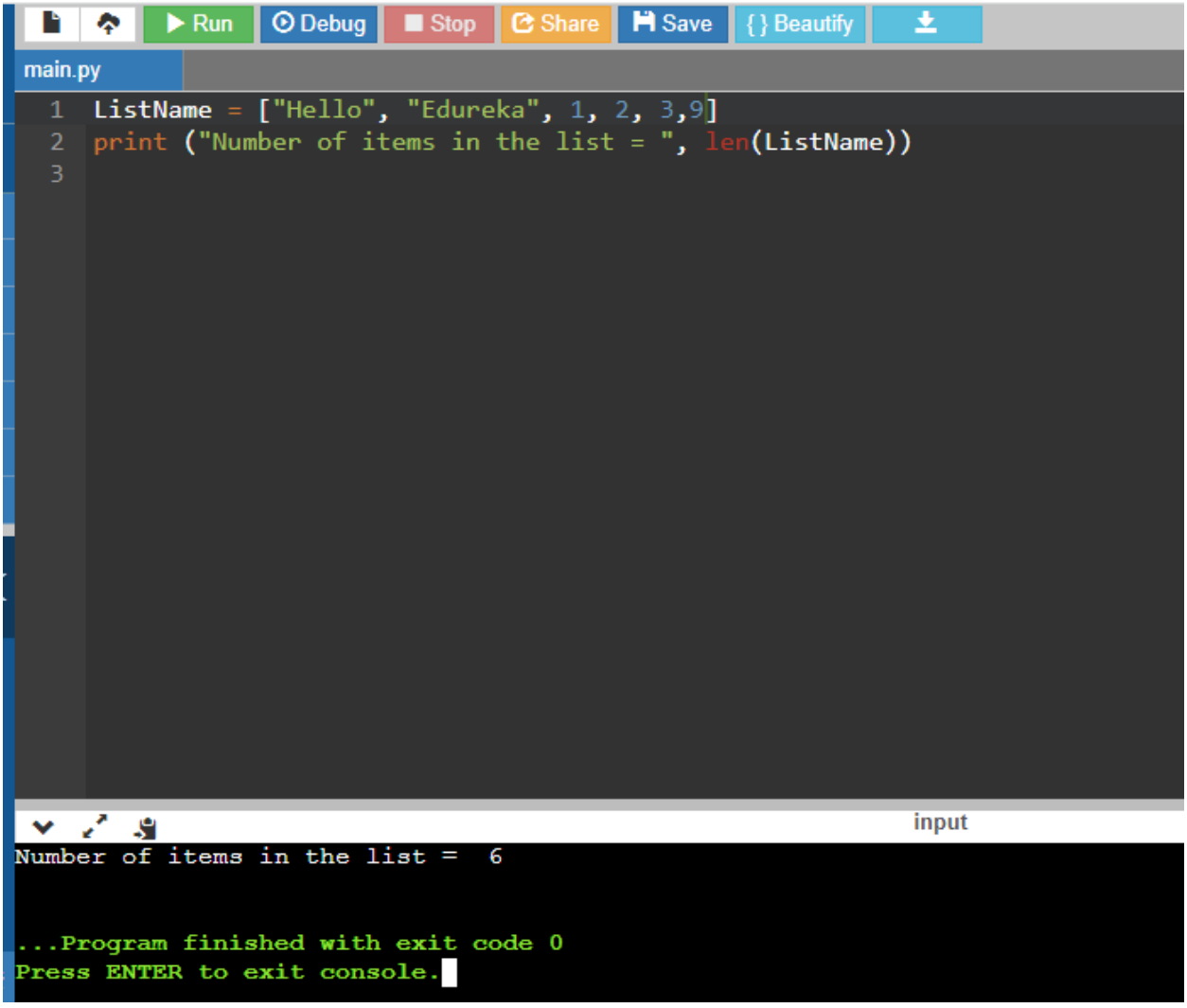
Q9



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Q10

main.py

```
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
```

input

```
24


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

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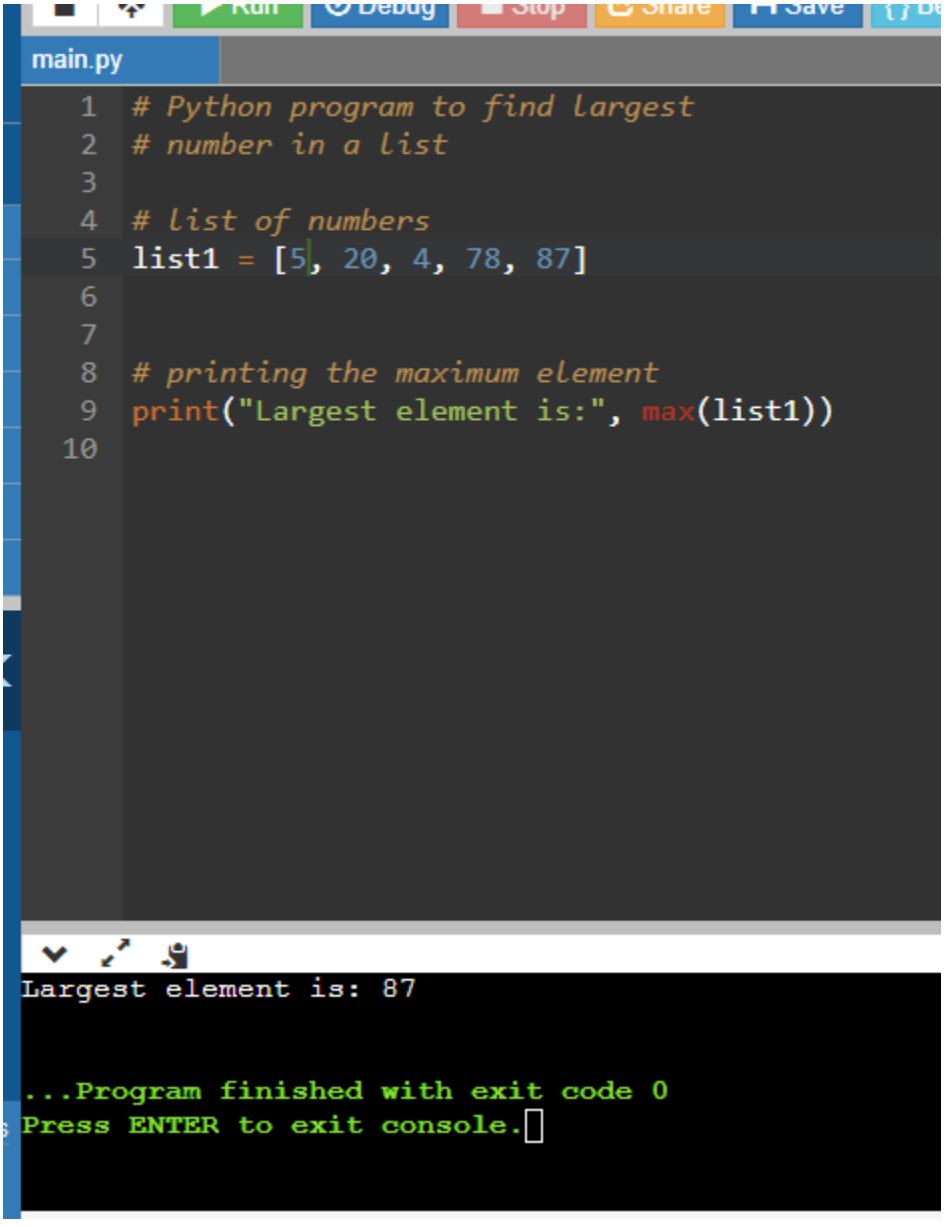
Q11



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Q12