

Q1 Program to reverse the string.

Enter the string: helloworld

The reversed string is: dlrowolleh

Q2 Python Program to Print all Numbers in a Range Divisible by a Given Number. (user inputs the range and the number)

Enter the upper range: 100

Enter the lower range: 0

Enter the number to divide by:- 13

0

13

26

39

52

65

78

91

Q3 Program to calculate the area of a triangle using heron's formula. (check condition if the combination of sides is possible).

Enter side 1: 3

Enter side 2: 4

Enter side 3: 5

The area of the triangle is: 6.0

Q4 Write a Python program to construct the following pattern, using a nested for loop.

```
*
**
***
****
*****
*****
****
***
**
*
```

Q5 Write a python program to print a triangular pattern of the alphabet (user input the number of rows).

Enter the number of rows: 19

```
A
BC
DEF
GHIJ
KLMNO
PQRSTU
VWXYZABC
DEFGHIJK
LMNOPQRST
UVWXYZABCDE
FGHIJKLMNOP
QRSTUVWXYZABC
DEFGHIJKLMNOP
QRSTUVWXYZABCDE
FGHIJKLMNOPQRST
UVWXYZABCDEFGHIJK
LMNOPQRSTUVWXYZABC
DEFGHIJKLMNOPQRSTU
VWXYZABCDEFGHIJKLMNO
```

Q6 Write a python program to print the prime numbers for a user input range.

Enter the Lowest Range Value: 0

Enter the Upper Range Value: 150

Invalid inputs: Ranges should be positive.

Q7 Write a python program to find the numbers which are multiple of 7 and divisible by 11 in the range 1-500.

```
77
154
231
308
385
462
```

Q8 Input 10 integer values from the user. Write a python program to find and print the following:

- a. positive numbers
- b. negative numbers
- c. odd numbers
- d. even numbers
- e. Number of times each number occurs in the List

Enter the number: 1

Enter the number: 2

Enter the number: 3

Enter the number: 4

Enter the number: 5

Enter the number: 5

Enter the number: -2

Enter the number: -4

Enter the number: -3

Enter the number: -2

The negative numbers are:

-2

-4

-3

-2

The positive numbers are:

1

2

3

4

5

5

The odd numbers are:

1

3

5

5

-3

The even numbers are:

2
4
-2
-4
-2

1 occurs 1 times
2 occurs 1 times
3 occurs 1 times
4 occurs 1 times
5 occurs 2 times
5 occurs 2 times
-2 occurs 2 times
-4 occurs 1 times
-3 occurs 1 times
-2 occurs 2 times

Q9 Write a program to count the number of occurrences of each word in the list(List entered by the user).

Enter the range of words in list: 6

Enter the word to be added in list: hello

Enter the word to be added in list: world

Enter the word to be added in list: hello

Enter the word to be added in list: my

Enter the word to be added in list: name

Enter the word to be added in list: is

Enter the word to be counted: hello

hello occurs 2 times