

Logic Building with Python Assignment 03

Task #1: Sequence Printing

- 1. Write programs that generate the following patterns:
 - a) 1 3 5 7 9 11 ... 99 (All odd numbers less than 100)
 - b) 0 2 4 6 8 10 ... 98 (All evens lesser than 100)
 - c) 99 97 95 ... 7 5 3 1 (All odd numbers less than 100, in reverse order)
 - d) 98 96 94 92 ... 8 6 4 2 0 (All evens lesser than 100, in reverse order)
 - e) Print all numbers from start to end (take input).
- 2. Write a program which takes Start and End as input and prints the square, cube, power 4 and power 5 of all the number in the given range. Here is the example:

Start: 10				
End: 20				
i	i^2	i^3	i^4	i^5
10	100	1000	10000	100000
11	121	1331	14641	161051
12	144	1728	20736	248832
13	169	2197	28561	371293
14	196	2744	38416	537824
15	225	3375	50625	759375
16	256	4096	65536	1048576
17	289	4913	83521	1419857
18	324	5832	104976	1889568
19	361	6859	130321	2476099
20	400	8000	160000	3200000

Task # 2: Table Printing

1. Write a program which prints the table of the given input and the start and the

end and print the table in the given range.

Write a program to print an odd number table using a for loop

```
------Odd table Printing------
Enter the number of which you want table: 16
Enter the range: 10
    16x1=16
    16x3=48
    16x5=80
    16x7=112
    16x9=144
```

• Write a program to print an even number table using a for loop

Task # 3: Shape Printing

- 1. Take two inputs **Length** and **Width** and print the rectangle made up of stars.
 - o Replace star with any other character taken from the user.
 - Replace the character by taking input your name
- Print triangles of stars using a for loop.
 Make these 4 triangles, dependent on the height (which your program must take input from the console).









