

Output Programs

a. <pre>n=3 for i in range(1, n+2): print(i*i)</pre>	b. <pre>n=19 for i in range(15, n+2): print(i%2, sep='')</pre>
c. <pre>n=30 for i in range(27, n+2): print(i+5, end='@')</pre>	d. <pre>for x in range(10,20,3): print(x, end="#")</pre>
e. <pre>for a in range(10, 50,11): if a%2==0: print(a+5) else: print(a-5)</pre>	f. <pre>for i in range(16,4,-4): if i % 3 ==0: print(i/2) else: print("--") print("Quitting")</pre>
g. <pre>num=258 while num>0: print(num%10) num=num//10</pre>	h. <pre>count=0 while count<6: print("Hello") count+=1</pre>
i. <pre>x=10 y=0 while x>y: print(x,y) x=x-2 y=y+2</pre>	j. <pre>i=10 while i<50: print("i=",i,i*2) i=i+10</pre>

Loop Programs

1. Write a program to display a table of a given number input.
2. Write a program to display the square of all numbers till n, where n is number input taken from the user. Write a program to print your name n times.
3. Write a program to display all numbers divisible by 7 in the given range. Take the starting and ending number of range from the user.
4. Write a program to find out the factorial of a given number.
5. Write a program to print the following series:
 - a. 1 8 27 n (cube of all nos)
 - b. 1 9 25 n (square of odd nos.)
6. Write a program to find out whether the given number is prime or not.

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7. Write a program to display the sum of all odd numbers between 1 and 100.
8. Write a program to display fibonacci series upto n terms.

0 1 1 2 3 5 8 13...n
9. Write a program to input 5 numbers and find out their sum and display.
10. Write a program to find out the largest number out of entered numbers.
11. Write a program to display all prime numbers between 1..100.
12. Take 2 numbers (x,y) as input and find out x raised to the power of length of y.
13. Write a program to input 2 numbers m and n. Then display the first m multiples of n.
14. Write a program to input 10 numbers. If the user enters a negative number, the loop should stop and display the sum and average of all numbers entered.
15. Write a program to find the sum of first n terms of the following series:
 - a. $x + x^2 + x^3 + x^4 + \dots + x^n$
 - b. $x - x^2 + x^3 - x^4 + \dots + x^n$
17. Create a menu driven program with the following options:
 - a. Compute Compound Interest
 - b. Computer Simple Interest

After each execution, the user should be prompted if he/she wants to continue. Loop should execute till the user enters 'N' or 'n' as an option.