

Exercise 8: Control Statements: Iteration [26/09/2019]

Note:

Write each program in separate python file and also prepare a MS Word document with problem, solution and output.

Save your program files in Z:\Python\Ex8a\Prg<no>.py

1. Write a program to print the series 1,2,3,... 10.
2. Write a program to print the series 2, 4, 6, ... 20.
3. Write a program to print the series 10, 9, 8, 7, ... 1.
4. Write a program to find the sum of series $1 + 2 + 3 + \dots + 10$
5. Write a program to print table of 2.
6. Write a program to print table of user inputted number
7. Write a program to print a table of n till m times
8. Write a program to print all contents of math module using loop line by line
9. Write a program to list all built-in functions of Python using loop line by line
10. Write a program to generate Characters and their corresponding ASCII values table from 0-255.
11. Write a program to print Leap Year between 2 user inputted years
12. Write a program to Find the Factorial of a Number using loop
13. Program to find the reverse of a string using a loop.
14. Write a program to Find the Sum of Natural Numbers
15. Write a program to print all natural numbers from 1 to n. - using while loop
16. Write a program to print all natural numbers in reverse (from n to 1). - using while loop
17. Write a program to print all alphabets from a to z. - using while loop
18. Write a program to print all even numbers between 1 to 100. - using while loop
19. Write a program to print all odd number between 1 to 100.
20. Write a program to find sum of all natural numbers between 1 to n.
21. Write a program to find sum of all even numbers between 1 to n.
22. Write a program to find sum of all odd numbers between 1 to n.
23. Write a program to print multiplication table of any number.
24. Write a program to count number of digits in a number.
25. Write a program to find first and last digit of a number.
26. Write a program to find sum of first and last digit of a number.
27. Write a program to swap first and last digits of a number.
28. Write a program to calculate sum of digits of a number.
29. Write a program to calculate product of digits of a number.
30. Write a program to enter a number and print its reverse.
31. Write a program to check whether a number is palindrome or not.
32. Write a program to find frequency of each digit in a given integer.
33. Write a program to enter a number and print it in words.
34. Write a program to print all ASCII character with their values.
35. Write a program to find power of a number using for loop.
36. Write a program to find all factors of a number.
37. Write a program to calculate factorial of a number.
38. Write a program to find HCF (GCD) of two numbers.
39. Write a program to find LCM of two numbers.
40. Write a program to check whether a number is Prime number or not.
41. Write a program to Print all Prime Numbers in an Interval
42. Write a program to print all Prime numbers between 1 to n.
43. Write a program to find sum of all prime numbers between 1 to n.
44. Write a program to find all prime factors of a number.
45. Write a program to check whether a number is Armstrong number or not.
46. Write a program to print all Armstrong numbers between 1 to n.
47. Write a program to Find Armstrong Number in an Interval
48. Write a program to check whether a number is Perfect number or not.
49. Write a program to print all Perfect numbers between 1 to n.
50. Write a program to check whether a number is Strong number or not.
51. Write a program to print all Strong numbers between 1 to n.
52. Write a program to print Fibonacci series up to n terms.
53. Write a program to Print the Fibonacci sequence under n.

54. Write a program to find one's complement of a binary number.
55. Write a program to find two's complement of a binary number.
56. Write a program to convert Binary to Octal number system.
57. Write a program to convert Binary to Decimal number system.
58. Write a program to convert Binary to Hexadecimal number system.
59. Write a program to convert Octal to Binary number system.
60. Write a program to convert Octal to Decimal number system.
61. Write a program to convert Octal to Hexadecimal number system.
62. Write a program to convert Decimal to Binary number system.
63. Write a program to convert Decimal to Octal number system.
64. Write a program to convert Decimal to Hexadecimal number system.
65. Write a program to convert Hexadecimal to Binary number system.
66. Write a program to convert Hexadecimal to Octal number system.
67. Write a program to convert Hexadecimal to Decimal number system.