

loop.py

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1  ###Day 03: Control Flow & Loops
2
3  ## Write a program that prints all even numbers from 1 to 50 using a while loop.
4
5  for i in range(1,51):
6      if(i%2==0):
7          print("even number",i)
8
9  ## Create a program that takes a number as input and prints its multiplication table from 1
   to 10
10 num =int(input("enter the number"))
11 for i in range(1,11):
12     print(f"{num} x {i} ={num*i}")
13
14 #Write a program to print the following pattern:
15 """*
16     **
17     ***
18     ****
19     *****
20 """
21 num =5
22 for i in range(1,num+1):
23     print('*' *i)
24 # Create a program that takes a number as input and calculates the sum of all numbers from
   1 to that number using a for loop.
25 num = int(input("enter the number"))
26 sum =1
27 for i in range(1,num+1):
28     sum+=i
29 print(sum)
30 #Write a program that takes a year as input and checks whether it's a leap year or not
   using if-elif-else statements
31 year = int(input("enter the year"))
32 if(year%400==0) or (year%100!=0) and (year%4==0):
33     print(f"{year} isa leap year")
34 else:
35     print(f"{year} is not leap year")
```