Simple programs

1. Write a program that can take two numbers and find the smallest among them
2. A program that can check if a given number if odd or even
3. A program that can check if a given number is positive, negative or zero
4. Write a program that gets the marks from the student and prints the grade as given below.
   1. Marks > 90, grade ‘O’
   2. Marks 81-90, grade ‘A’
   3. Marks 71-80, grade ‘B’
   4. Marks 61-70, grade ‘C’
   5. Marks 50-60, grade ‘D’
   6. Marks < 50, grade ‘U’
5. A program that calculates the simple interest by getting the principle amount(P), rate(R) and time(T) from the user (SI = *(P x T x R)/100)*
6. Write a program that can check if the input character is a vowel or a consonant

Using loops

1. Write a program to find the sum of n numbers (get the value of n from the user. If n is 5, then find 1 + 2 + 3 + 4 + 5).
2. Accept a starting range ‘a’ and an ending range ‘b’ and find the sum of all numbers between a and b(both inclusive) using for loop
3. Write a program to find the factorial of a number (factorial of 6 = 1 \* 2\* 3\*4\*5\*6)
4. A program that prints odd numbers between a given range.
5. Try out the patterns,

​​<https://docs.google.com/document/d/1G8SaM-xlgMAUQWWMp_N5x7EC-TzToszcFjVO18CvuBU/edit?usp=sharing>

Using Lists

1. Write a Python program to print the even numbers from a given list.

sample input: [1, 2, 3, 4, 5, 6, 7, 8, 9]

output: [2, 4, 6, 8]

1. Given a two list of integers, create a third list such that it should contain only odd numbers from the first list and even numbers from the second list

Sample input:

list1 = [10, 20, 23, 11, 17]

list2 = [13, 43, 24, 36, 12]

sample output:

merged\_list = [23, 11, 17, 24, 36, 12]

1. Write a Python program to find the second largest element in a list