**Python Programming (IT2121)**

**Session: 2024-2025**

**Loops: while, for**

**Objective: Use of while and for loop, Nested loop, break and continue, else**

1. WAP to find sum of first n elements.
2. WAP to generate Fibonacci series of first n elements.
3. WAP to check if a given number is prime or not.
4. WAP to find **an** for given numbers ***a*** and ***n***.
5. WAP to find sum of digits of a given number.
6. WAP to find the reverse of a number.
7. WAP to find a given number is Armstrong or not.
8. WAP to find a given number is palindrome or not.
9. WAP to find factorial of a number.
10. WAP to find all the even numbers between 20 and 70.
11. WAP to find length of a string.
12. WAP to count the number of vowels and consonants in a given string.
13. WAP to find the reverse of a string.
14. Display the following patterns:

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