1. Write a program to perform addition, subtraction, multiplication, and division on two numbers entered by the user.
2. Write a program to convert a number from decimal to binary, octal, and hexadecimal.
3. Create a program that takes the principal, rate, and time from the user and calculates simple interest.
4. Write a program to display the data type of different literals (e.g., integer, float, string, boolean).
5. Accept a string input from the user and print it in uppercase and reversed form.
6. Write a Python program to demonstrate the use of a list. Perform append, pop, and slicing operations.
7. Create a tuple with five elements. Access the third element and display it.
8. Create a set of numbers. Add a new number, then remove a number, and print the final set.
9. Write a program to create a dictionary with names as keys and marks as values. Print all keys and values.
10. Demonstrate the use of all arithmetic and logical operators on two variables.
11. Write a program to check whether a given number is even or odd.
12. Take input of marks from the user and display the grade using if-elif-else (A, B, C, D, F).
13. Create a program that determines if a year entered by the user is a leap year.
14. Write a program to check if a number is divisible by both 3 and 5.
15. Accept a character from the user and determine whether it’s a vowel or consonant.
16. Write a program to print all factors of a number entered by the user.
17. Print the first n prime numbers where n is given by the user.

18. Write a program to check if a number is a perfect number.
19. WAP to print prime numbers in the range given by user
20. Write a function that returns the sum and average of a list.
21. Create a recursive function to calculate the power a^b (a raised to b).
22. Use a lambda function to find the cube of a number.
23. Use filter() to filter out even numbers from a given list.
24. Define a class Student with instance variables for name, age, and marks. Include a method to display them.
25. Extend the Student class to include a method that checks whether the student has passed (marks > 40).
26. Write a class with a static variable college_name, and instance variables name and roll_no, and display all.
27. Create a base class Animal with a method speak(), and subclasses Dog and Cat that override speak().
28. Write a Python Program that does the following task. Take user's First name and Last name as an input Concatenate both Print a personalize message "Hello _____ Welcome to SFIT
29. Write a Python Program that does the following task Ask the user to enter a number as an input Use math module to calculate Square root of a number.
30. Write a Python Program that does the following task Create example for a module and import it in you program