- 1. Write a program to accepts two integers and print their sum.
- 2. Write a program that accepts radius of a circle and prints its area.
- 3. Write a program that accepts base and height and calculate the area of triangle.
- **4.** Write a program that inputs a student's marks in three subjects (out of 100) and prints the percentage marks.
- **5.** Write a program to compute area of square and triangle.
- 6. Write a program to calculate simple interest.
- 7. Write a program to read two numbers and prints their quotient and reminder.
- 8. Write a program to find whether a given number is even or odd.
- 9. Write a program to find largest among three integers.
- **10.**Write a program to find lowest among three integers.
- **11.**Write a program that accepts length and breadth of rectangle and calculate its area.
- **12.**Write a program that accepts weight in Kg and height in meters and calculate the BMI.
- 13. Write a program that reads the number n and print the value of n², n³ and n⁴.
- **14.**Write a program to accept the marks of five subjects and calculate the average marks.
- **15.**Write a program to accept the height in cm and convert it into feet and inches.
- **16.** Write a program that accepts the age and print if one is eligible to vote or not.
- **17.**Write a program that accepts two numbers and check if the first number is fully divisible by second number or not.
- **18.**Write a program to read base, width and height of parallelogram and calculate its area and perimeter.

- 19. Write a program to accept the year and check if it is a leap year or not.
- **20.**Write a program to obtain x, y, z and calculate $4x^4+3y^3+9z+6\pi$.
- **21.**Write a program to input a number and print its square if it is odd, otherwise print its square root.
- **22.**Write a program to input a number and check whether it is positive, negative or zero.
- **23.**Write a program to input percentage marks of a student and find the grade as per following criterion:

Marks	Grade
>=90	Α
75-90	В
60-75	С
Below 60	D

- **24.** Write a program to enter a number and check if it is a prime number or not.
- **25.**Write a program to display a menu for calculating area of circle or perimeter of the circle.
- **26.**Write a program that reads two numbers and an arithmetic operator and displays the computed result.
- **27.**Write a program to print whether a given character is an uppercase or a lowercase character or a digit or any other character.
- **28.**Write a program to calculate and print the roots of a quadratic equation $ax^2+bx+c=0.(a\neq 0)$

- **29.**Write a program to print sum of natural numbers between 1 to 7. Print the sum progressively i.e. after adding each natural number, print sum so far.
- **30.**Write a program to calculate the factorial of a number.
- **31.**Write a program to create a triangle of stars using nested loop.
- **32.**Write a Python script to print Fibonacci series' first 20 elements.
- **33.**Write a program to read an integer>1000 and reverse the number.
- **34.**Input three angles and determine if they form a triangle or not.
- **35.**Write a Python script that displays first ten Mersenne numbers.
- **36.**Write a Python script that displays first ten Mersenne numbers and displays 'Prime' next to Mersenne Prime Numbers.
- **37.**Write a program to calculate BMI and print the nutritional status as per following table:

Nutritional Status WHO criteria BMI cut-off

Underweight <18.5

Normal 18.5-24.9

Overweight 25-29.9

Obese ≥30

38.Write python script to print following pattern.

1

1 3

1 3 5

1 3 5 7

39.Write a program to find sum of series :

$$S=1+x+x^2+x^3+x^4...+x^n$$

- 40. Write a python script to input two numbers and print their lcm and hcf.
- **41.**Write a python script to calculate the sum of the following series:

$$S=(1)+(1+2)+(1+2+3)+.....+(1+2+3+....+n)$$

- **42.**Write a program to print the following using a single loop (no nested loops)
 - 1
 - 1 1
 - 1 1 1
 - 1 1 1 1
 - 1 1 1 1 1
- **43.**Write a program to print a pattern like:
 - 4321
 - 432
 - 43
 - 4
- 44. Program that reads a line and print its statistics like:

Number of uppercase letters:

Number of lowercase letters:

Number of alphabets:

Number of digits:

- **45.**Write a program that reads a line and a substring and displays the number of occurrences of the given substring in the line.
- **46.**Write a program that takes a string with multiple words and then capitalizes the first letter of each word and forms a new string out of it.
- **47.**Write a program that reads a string and checks whether it is a palindrome string or not.
- **48.**Write a program that reads a string and displays the longest substring of the given string having just the consonants.
- **49.**Write a program that reads a string and then prints a string that capitalizes every other letter in the string.
- **50.**Write a program that reads the email id of a person in the form of a string and ensures that it belongs to domain @edupillar.com (Assumption: no invalid characters are there in email-id)
- **51.**WAP to remove all odd numbers from the given list.
- **52.**WAP to display second largest element of a given list.
- **53.**WAP to display frequencies of all the elements of a list.
- **54.**WAP in Python to find and display the sum of all the values which are ending with 3 from a list.
- **55.**WAP to search an element from the given list.
- **56.**WAP to accept values from user and create a tuple.
- **57.**Write a program to input total number of sections and stream name in 11th class and display all information on the output screen.
- 58. Write a program to input total number of sections and

- **59.**WAP to store students' details like admission number, roll number, name and percentage in a dictionary and display information on the basis of admission number.
- **60.**Write a Python program to remove an item from a tuple.
- **61.** Write a program to input n numbers from the user. Store these numbers in a tuple. Print the maximum, minimum, sum and mean of number from this tuple.