1. Write a PYTHON program to generate all prime numbers between 10 and 50. Also display the average of prime numbers thus generated.
2. Write a PYTHON program To Sum The Series :

x / 1! – x2 / 2! + x3 / 3!

1. Write a PYTHON program to accept a set of 3 numbers and check if it forms a Pythagorean triplet. Perform this till the user wishes to exit(using while loop).
2. Write a PYTHON program to generate all Armstrong numbers between 5 and 500.Also find the mean of all these Armstrong numbers.
3. Write a PYTHON program to accept a list of 15 numbers and display :
   1. i)sum and average of all odd numbers
   2. ii)sum and average of all even numbers
4. Write a PYTHON program to display the maximum, minimum and mean of a given set of ‘N’ numbers.
5. Write a PYTHON program to sum the series ;

-1/U1 + 1/U3 – 1/U5

1. Write a PYTHON program to generate all perfect numbers between 10 and 1000. Also display the mean of all these perfect numbers.
2. Write a PYTHON program that has menu items : i) convert a given decimal number to its binary form ii) convert a binary number to its decimal form
3. Write a menu driven PYTHON program with menu items 1) 12 – hour mode 2) 24 – hour mode 3) Exit. The program has to accept 2 times in hrs and minutes and a choice ( 1 or 2 or 3) and display the sum of these two times . Perform this as long the user wishes to continue.(use while loop)
4. Write a PYTHON program to display the first ‘n’ numbers of the Fibonacci series and factorial of each of the numbers
5. Write a PYTHON program to display all the palindrome numbers between 1000 and 5000.

Generate the following pattern using nested loops :

8

86

864

8642

Generate the following pattern using nested loops :

ABCDE

ABCD

ABC

AB

A

Generate the following pattern using nested loops :

55555

4444

333

22

1

Generate the following pattern using nested loops :

A65

AB66

ABC67

ABCD68

ABCDE69