**SUMMER FIELDS SCHOOL**

**SESSION – (2019-20)**

**Holiday Homework (Class – XII)**

WAP of the following using Python (for Practical File)

1) Recursively find the factorial of a natural number.

2) Read a file line by line and print it.

3) Remove all the lines that contain the character `a' in a file and write it to another file.

4) Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).

5) Write a recursive code to find the sum of all elements of a list.

6) Write a recursive code to compute the nth Fibonacci number.

7) Write a Python program to implement a stack and queue using a list data-structure.

8) Write a recursive Python program to test if a string is a palindrome or not.

10) WAP to input any number and to find reverse of that number.

11) WAP to add two matrices.

12) Combines the elements of two lists if they are not equal.

**Input🡪[1,2,3] , [3,1,4]:**

**Output🡪 [(1, 3), (1, 4), (2, 3), (2, 1), (2, 4), (3, 1), (3, 4)]**

14) Write a recursive code to implement binary search

15) Page – 232 (Type C:1,2,3,4,5)

**Write the followings in Note Book**

1) PAGE 34, 82,137,169(Type B)

2)CBSE XII – Paper 2017-18, 2016-17 & 2015-16 (Section B Python)

2) Page 229 (Type A & Type B)