# KENDRIYA VIDYALAYA ONGC PANVEL

## XI CS (PYTHON) PRACTICAL LIST 2018-19

1) WAP to find the area and perimeter of rectangle, triangle and circle.
2) WAP to calculate grade on the basis of marks obtained.
3) WAP to calculate roots of quadratic equation.
4) WAP to read 3 numbers and print them in ascending and descending order.
5) WAP to read a number and calculates sum of digits, product of digits and reverse of a given number.
6) WAP to read a string and print Number of uppercase letters, lowercase letters, alphabets, digits and spaces in a given string.
7) WAP that reads a string and check whether it is a palindrome or not.
8) WAP to display number of occurrence of the given substring in a given line.
9) WAP to extract all digits from a string and find sum of digits of a given string.
10) WAP to read a string and displays the longest substring of the given string having just the consonants.
11) WAP to find minimum, maximum, element from a list with its index in the list, find sum and average of all the elements from the list.
12) WAP to find frequencies of all elements of the list, print the list of unique elements and duplicate elements in the list.
13) WAP to find $3^{rd}$ largest element of a list of numbers.
14) WAP to left shift (Element at $1^{st}$ index moves to $2^{nd}$ index, Element at $2^{nd}$ index moves to $3^{rd}$ index and element at last index moves to $1^{st}$ index), right shift (Element at $2^{nd}$ index moves to $1^{st}$ index, element at element at $3^{rd}$ index moves to $2^{nd}$ index, element at $1^{st}$ index moves to last index) and reverse all the elements of the list.
15) (i) WAP that creates a tuple storing first 9 terms of Fibonacci series.
(ii) WAP to receive an index and returns the corresponding value from the tuple.
(iii) WAP to receive a Fibonacci term and returns the index of the given term in the tuple.
16) WAP to create a nested tuple to store the marks in 3 subjects for 5 subjects and calculate total marks and average marks obtained by each student.
17) WAP to count number of even pairs from the given pair of tuples.

18) WAP to create dictionary whose keys are month names and values are days in the corresponding months.
   (i)   Ask the user to enter a month name and use dictionary to tell how many days in a month.
   (ii)  Print out all of the keys in alphabetical order.
   (iii) Print all of the months with 31 days.
   (iv)  Print key-value pair sorted by the number of days in each month.
19) WAP to create a phone dictionary and print the name of the person by entering his phone number.
20) Write a menu driven program to sort a list using bubble sort and insertion sort.
21) Write a program to print various patterns using nested loop.
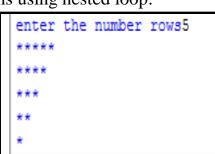
```
enter the number rows5
    *
   **
  ***
 ****
*****
```

```
enter the number rows5
*****
****
***
**
*
```

```
enter the no of rows:5
1
12
123
1234
12345
```

```
enter the no of rows:5
1
22
333
4444
55555
```

```
enter rows 5
    *
   * *
  * * *
 * * * *
* * * * *
```