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## **Python Assignment**

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- Q1. L is a list defined as L=[11, 12, 13, 14].
  - (i) WAP to add 50 and 60 to L.
  - (ii) WAP to remove 11 and 13 from L.
  - (iii) WAP to sort L in ascending order.
  - (iv) WAP to sort L in descending order.
  - (v) WAP to search for 13 in L.
  - (vi) WAP to count the number of elements present in L.
  - (vii) WAP to sum all the elements in L.
  - (viii) WAP to sum all ODD numbers in L.
  - (ix) WAP to sum all EVEN numbers in L.
  - (x) WAP to sum all PRIME numbers in L.
  - (xi) WAP to clear all the elements in L.
  - (xii) WAP to delete L.
- Q2. D is a dictionary defined as  $D = \{1.5.6, 2.7.8, 3.6.6, 4.8.7, 5.7.7\}$ .
  - (i) WAP to add new entry in D; key=8 and value is 8.8
  - (ii) WAP to remove key=2.
  - (iii) WAP to check weather 6 key is present in D.
  - (iv) WAP to count the number of elements present in D.
  - (v) WAP to add all the values present D.
  - (vi) WAP to update the value of 3 to 7.1.
  - (vii) WAP to clear the dictionary.
- Q3. S1 is a set defined as S1 = [10, 20, 30, 40, 50, 60].

S2 is a set defined as S2= [40, 50, 60, 70, 80, 90].

- (i) WAP to add 55 and 66 in Set S1.
- (ii) WAP to remove 10 and 30 from Set S1.
- (iii) WAP to check whether 40 is present in S1.
- (iv) WAP to find the union between S1 and S2.
- (v) WAP to find the intersection between S1 and S2.
- (vi) WAP to find the S1 S2.
- Q4. Write the following program.
  - (i) WAP to print 100 random strings whose length between 6 and 8.
  - (ii) WAP to print all prime numbers between 600 and 800.
  - (iii) WAP to print all numbers between 100 and 1000 that are divisible by 7 and 9.
- Q5. WAP to create two lists of 10 random numbers between 10 and 30; Find
  - (i) Common numbers in the two lists
  - (ii) Unique numbers in both the list
  - (iii) Minimum in both the list
  - (iv) Maximum in both the list
  - (v) Sum of both the lists

- Q6. WAP to create a list of 100 random numbers between 100 and 900. Count and print the:
  - (i) All odd numbers
  - (ii) All even numbers
  - (iii) All prime numbers
- Q7. D is a dictionary defined as D={1:"One",2:"Two",3:"Three",4:"Four", 5:"Five"}.

WAP to read all the keys and values from dictionary and write to the file in the given below format.

Key1, Value1

Key2, Value2

Key3, Value3

Q8. L is a list defined as L={"One","Two","Three","Four","Five"}.

WAP to count the length of reach element from a list and write to the file in the given below format:

One, 3

Two, 3

Four, 4

- Q9. Write to the file 100 random strings whose length between 10 and 15.
- Q10. Write to the file all prime numbers between 600 and 800.
- Q11. WAP to calculate the time taken by a program.
- Q12. WAP to sort following number of elements in a list, calculate time taken and plot the graph.

Number of elements in list	Time Taken
50k	T1
100k	T2
150k	T3
200k	T4
250k	T5

Q13. WAP to create a dictionary of student marks in five subjects and you have to find the student having maximum and minimum average marks.