ALL SAINTS' CHURCH SR. SEC. SCHOOL
HALF YEARLY PRACTICAL EXAMINATION
SUBJECT: IP
CLASS: XI (ALL)

MM: 30 MARKS

20 MARKS- CODING

5- COPY

5-VIVA

Lists:

1. Write a Python program to create an empty list, then append 5 integers to the list. Finally, print the list.
2. Initialize a list with the elements `[3, 5, 7, 9, 11]`. Insert the number `6` at the second position in the list and print the updated list. Then Use the `pop()` method to remove the last element from the list, and print the updated list
3. Write a Python function to traverse a list and print all elements that are greater than 10.
4. Given a list of numbers `[8, 2, 3, 9, 5, 6, 1,9,8,9]`, use Python list methods to:
    - Remove the number `3` from the list.
    - Add the number `12` to the end of the list.
    - Count how many times the number `9` appears in the list.
    - Find the index of the number `5`.
    - Print the updated list.
5. Create a Python function that takes a list of numbers as input and returns the minimum, maximum, and sum of the list.
6. Write a Python program to reverse a list of strings using the `reverse()` method, and then sort the reversed list in ascending order using the `sort()` method.

Dictionaries: (DO ANY 4)

1. Write a Python program to create a dictionary of 3 students and their scores (key: student name, value: score). Then, update the score of one student and print the updated dictionary in form of key-value pair.
2. Write a Python program to create a dictionary with keys as product names and values as their prices. Then, add a new product to the dictionary and print the updated dictionary where the value is greater than 500.
3. Create a dictionary with 5 key-value pairs where the keys are country names and the values are their populations. Write a Python program to:
    a. Delete one key-value pair using the `del` keyword.
    b. Check if a specific item is present in the dictionary.
    c. If present, update its quantity using the `update()` method.
    d. If not, add it to the dictionary

    e. Print the updated dictionary.
4. Write a Python program to initialize a dictionary with student names and their grades. Then, use the `clear()` method to remove all entries from the dictionary and verify that it is empty.
5. Write a Python program that takes a dictionary of employee names (keys) and their salaries (values). The function should return the name of the employee with the highest salary.
6. Write a Python function that takes a dictionary as input and prints all the values in the dictionary without using the `values()` method (use a loop instead).