INDIAN SCHOOL AL WADI AL KABIR
Holiday Homework 2024-25

Class: XII	SUB: COMPUTER SCIENCE	Date of Completion: 11/08/2024

Q.1 Prepare a presentation on any of the given topic below as a part of Art Integration Project. Your presentation should contain minimum of 8 slides.

    i) Cyber Security
    ii) Computer Network

Q.2 Write the below given programs in a Record Book

1	Write a python program using function to pass list to a function and double the odd values and half even values of a list and display list element after changing.
2	Write a Python program input n numbers in tuple and count how many even and odd numbers are entered.
3	Write a menu driven program in python to delete name of a student from dictionary and to search phone no of a student by student name. Create menu as below: MENU 1. Delete from Dictionary 2. Search Phone number using name from Dictionary 3. Exit

4	Write a menu driven program in python to do following
	MENU
	    1. Reverse String
	    2. Check Whether string is Palindrome
	    3. Make half string in Uppercase
	    4. Exit

5	Write a program to read a list of n integers (positive as well as negative) from user. Create two new lists, one having all positive numbers and the other having all negative numbers with sum for both the list.
6	Write a python program to read and display file content line by line with each word separated by #.
7	Write a python program Read a text file and display the number of vowels /consonants /uppercase / lowercase characters in the file.
8	Write a python code that accepts a filename, and copies all lines that start with alphabets but not start with a lowercase letter from the first file into the second.
9	Write a python program to search for all the lines that contain the character 'a' in a file and write it to another file after removing character a in each line.
10	Write a python program to create a binary file with name and roll number. Search for a given roll number and display name, if not found display appropriate message.

11	Write a python program to create a binary file with roll number, name and marks. Input a roll number and update name and marks
12	Write a Menu driven program in python to count spaces, digits, words and lines from text file try.txt
13	Create a binary file student.dat to hold students' records like Rollno. Students name, and Address using the list. Write functions to write data, read them, and print on the screen.
14	Write a program to store customer data into a binary file cust.dat using a dictionary. The customer data contains ID as key, and name, city as values.. Display the id and name of students from 'Delhi'.
15	Write a function to write data into binary file marks.dat with the following structure - [rollno,name,mark] and display the records of students who scored more than 95 marks.
16	A binary file "emp.dat" has structure [employee id, employee name]. Write a function delrec(employee number) in Python that would read contents of the file "emp.dat" and delete the details of those employee whose employee number is passed as argument.