**CP PRACTICAL -3**

*Instructions:*

Write solutions including outputs for the following questions in a word processor and upload on Google classroom by 4 PM today (17th September, 2020).

SQL

1. Create the following table:

**CUSTOMERS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cust\_ID** | **Cust\_name** | **City** | **State** | **Amount** |
| C001 | Aisha | Delhi | Delhi | 10000 |
| C002 | Mahesh | Lucknow | Uttar Pradesh | 20000 |
| C003 | Ruchika | Delhi | Delhi | 15000 |
| C004 | Imran | Mumbai | Maharashtra | 17000 |

Write SQL commands to display the following:

(i) Display the table.

(ii) Add a column called email with datatype varchar.

(iii) Update the values of the column email by using string functions to extract the first 3 letters of cust\_name and the last 3 letters of city, followed by’@xyz.com’.

(iv) Add a column called year\_cust with a suitable datatype.

(v) Update the values of the column year\_cust as the current year using a date function.

2. Create any table which has a column of varchar type and a column of date type. Write queries to show the use of any date and string function NOT done in the lecture.

**(Share output too for the SQL portion.)**

JAVA

1. Write a program to input a year and display whether the year is leap or not.
2. Write a program to input 3 numbers and find the largest number.
3. Write a program to find

i) absolute value of a number

ii) display whether a number is positive or negative or zero

using ternary operator.

1. Write a program to input total marks of a student out of 1000 and display the following msg

"Passed with Distinction" if marks are greater than 75, "Passed with First class" if marks are between 60 to 75, "Passed with Second" if marks are between 40 to 60 and "Failed" if marks are below 40.

1. Write a program to find the roots of a quadratic equation.
2. Write a program to input a number and check whether the number is perfect square or not.
3. Write a program to find the distance between two points (x1, y1) and (x2, y2).
4. Write a program to input 3 numbers and check whether they form a triangle or not. If they form a triangle then find its area using Heron's formula.