1, Take the compiled executable you created for the task 1 - (Create a c++ program that reads a CSV file and prints the rows at even positions. For example, if the CSV file has 10 rows, print rows 2, 4,6, 8 and 10.)Disassemble it, edit the assembly to change the executable to print rows at odd positions.

2, Create a webpage with a textbox and a button. Enter any mathematical expression on the textbox and click the button, the result of the expression will be shown in an alert window.

For example, enter 2+3-1 and click the button. It should show 4 in the alert window. You have to use ReactJS to create the webpage, and to do that you will have to learn Javascript. This question is to evaluate your ability to learn an unfamiliar framework with an unknown language.

3, Observe the following image.

The red rectangle indicates the screen and it contains three rectangles. Suppose user clicks inside the screen, which is somewhere between the co-ordinates 0,0 and 500,500 and you need to find out if the user clicked inside a small rectangle and if they did which rectangle the user clicked. For example, if the user clicked 220,110 the answer is the green rectangle because the coordinate is inside the green rectangle, indicated by the blue lines.

The input is x and y

The output is

"Clicked inside Red/Green/Brown/Blue rectangle."

4, For example,

MyInteger m1=5;

This statement looks like defining a variable, and that is exactly what the program has to do. Read the text statements from user one at a time and do what the user has instructed.

For instance, user types in the following.

First line : MyInteger m1=5;MyInteger m2=7;

Second line: m1+m2

Here the first line contains two statements separated by a semicolon. If there is a semicolon, treat it as a statement and create the variable. So here are two statements and you have to create two class objects after reading this.

In the second line, there is no semicolon, that means its an expression. You have to evaluate the expression using the data user has provided in the previous statements and print the result.

Some examples of input and output.

Input:

Line 1: MyString str1 = "rahul";

Line 2: MyString str2 = "tr";

Line 3: str1 + str2

Output : rahultr

Line 4: str1

Output : rahul

Line 5: MyInteger int1 = 5

Line 6: str1+int1

Output: Error. Datatype mismatch.

Line 6: MyInteger m1=5;MyInteger m2=10;MyInteger m3=5;MyInteger m4=3;

Line 7: m1+(m2-m4)\*m2

Output: 15