#### NBF STUDYHUB

# Chapter 02 – Computer Science (Class 10)

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# Long Question and Answers

# Question No 1. Ejaz, Javeria, Liaqat, and Zainab are standing in a line. Clues are:

- a) Javeria is standing directly behind Ejaz.
- b) Zainab is not next to Liagat.
- c) Liagat is not at the end of the line.
- d) Zainab is standing in the first position.

#### In which order are they standing?

Answer: Zainab - Ejaz - Javeria - Liaqat

#### Explanation in Urdu:

- Clue 1: Zainab pehle position par hai.
- Clue 2: Ejaz ke foran peeche Javeria hai.
- Clue 3: Liagat last (4th) position par nahi ho sakta.
- Clue 4: Zainab aur Liagat aapas mein saath nahi honay chahiye.

Sirf Zainab - Ejaz - Javeria - Liaqat yehi order hai jo sab clues ko satisfy karta hai.

Question 2 (Briefly): "Provide students with a detailed map of their school. Ask them to create an abstract version, highlighting only the main buildings and pathways."

**Answer:** Students should be given a printed or drawn map of the school with all buildings, classrooms, and pathways. They should identify and highlight the **main areas only**, such as classrooms, library, principal's office, playground, and corridors. Then, using symbols or boxes, they can redraw a simpler **abstract map** focusing only on

the important places and connections.

# 

Abstract map ka matlab hota hai ek **simple version**, jisme sirf zaroori cheezein show hoti hain — jaise school ka overview without details.

Question No 3: Give students a problem that can be solved with a simple program. Encourage them to write functions to handle different parts of the problem, abstracting complex operations into manageable pieces.

Answer: Problem Example: "Calculate the average marks of a student in 5 subjects."

You can give students this simple problem and ask them to solve it using functions.

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# Step-by-step Plan:

- 1. Input marks for 5 subjects
- 2. Function 1: Take input of marks
- 3. Function 2: Calculate total
- 4. Function 3: Calculate average
- 5. Display the result

### Benefits of using functions:

- Har part ko alag function bana kar problem ko manageable bana sakte hain
- · Code reusable aur easy to read hota hai
- Students ko function writing ki practice milti hai

# 

Students ko kehna chahiye ke woh ek chhota program banayein jaise ke "marks ka average calculate karna", jisme woh har kaam ke liye **separate function** likhein. Jaise input lena, total calculate karna, average nikaalna — sab ko alag functions mein likhna chahiye.

# Question No 4: Given the following web form inputs, identify any syntax errors and correct them:

Name: Amjad Ali

Email: amjadali@gmail

Date: 01/01/2024

### Answer:

#### **Errors:**

1. **Name:** No error (Correct)

2. X Email: Syntax Error — Missing domain

x amjadali@gmail

Corrected: amjadali@gmail.com

3. **Date:** No error (Correct format: DD/MM/YYYY)

#### Final Correct Form Inputs:

Name: Amjad Ali

Email: amjadali@gmail.com

Date: 01/01/2024

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Question No 5: You have developed a web application that takes the budget head and provides total. Analyse the following budget and identify any logical errors in the total amount.

#### Given Budget:

Rent: \$1000Utilities: \$150Groceries: \$200

Total: \$1000 + \$150 + \$200 = \$1500

### Correct Calculation:

Let's add the values: 1000+150+200=13501000+150+200=13501000+150+200=1350But total is written as **1500** — **X** This is a logical error.

# Corrected Budget:

Rent: \$1000Utilities: \$150Groceries: \$200

✓ Correct Total = \$1350

The End
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