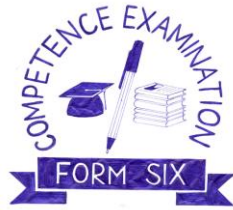


**THE PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**FORM SIX COMPETENCE EXAMINATIONS (FOSCE) - 2025**



**CODE: 136/2**

**COMPUTER SCIENCE 2**

**TIME: 3 HOURS**

**4<sup>TH</sup> MARCH 2025, AM**

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**Instructions**

1. This paper consists of **three (3)** questions.
2. Answer **two (2)** questions including question **one (1)**.
3. Submit printed codes and screenshots together with the softcopy of your work (s).
4. Save your work on the desktop in the folder named by your **Examination Number**.
5. Save your work by using the 1997-2003 version of the MS Office software you are using.
6. Check whether the **printed** work(s) are similar to the **softcopy** saved in the folder.
7. Cellular phones and any unauthorized material are **not** allowed in the examination room.
8. Type your **Examination Number** on every page of your softcopy work(s).

1. (a) Write C++ program which allow the user to choose any value for array size and input value into the array then the program should calculate the sum of all even and odd numbers in that array. (13 marks)
- (b) Write a C++ program to input a single–digit number and print it in a rectangular form of 5 columns and 5 rows as shown in the snapshot below. (12 marks)

```

Enter the size of the rectangle you like
PRECAUTION:PLEASE ENTER A SINGLE-DIGIT NUMBER!
5
55555
5 5
5 5
5 5
55555
-----

```

2. Develop a Sales calculator web application using Html and JavaScript languages. The application should prompt the user to enter the original price of an item and the percentage discount they receive. Consider the snapshots below:

(a) Before

## Sales Calculator

\$00.00

Original Price: \$

Percent Off: %

**Calculate!**

(b) After

## Sales Calculator

\$25,000.00

Original Price: \$

Percent Off: %

**Calculate!**

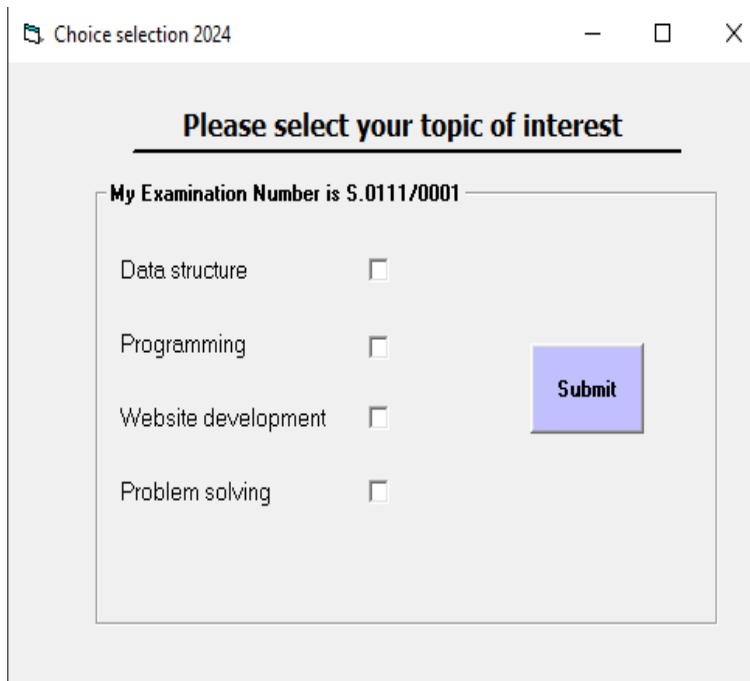
**Consider the following:**

Use a function to calculate the discounted price based on the input values. After clicking the *Calculate* button, function should:

- (a) Read the values from the "**Original Price**" and "**Percent Off**" input fields.
- (b) Calculate the discount amount and the final price.

**(25 marks)**

- 3. Use Visual Basic program to create the interface below. Substitute S.0111/0001 with your examination number and set blue as a fore colour of the statement "Please select your topic of interest".



**Further instructions:**

Write the codes which will detect the topic(s) selected by the user. A user will be able to select a topic(s) by clicking the checkbox appeared in the interface.

- (i) A program should display a message to inform a user the selected topic(s) in a message box after clicking Submit command button.
- (ii) If the user clicks the Submit command button without selecting any topic, a program should display a message "Please, you should select at least one topic".

**(25 marks)**