Practical Examination LBEP

Duration: 60 minutes | Total Marks: 100

Writing a program in C Language to perform the following task:

Question 1: [10 marks]

    1. Show a menu as the **figure 01**: (4 marks)

```
****************************************
  C  PROGRAM LANGUAGE
     1. Question 02.
     2. Question 03.
     3. Exit.
****************************************
  Enter Choice (1 - 3):
```

Figure 01

    2. When user enter option 1, 2, 3 the program performs the particular task. (6 marks)
    3. If user enter the number that is outside the range (1 - 3), an error message is raised.
    4. User can choose Yes/No to come back to step 2.

Question 2: [30 marks]

    Writing a program to display an Armstrong number. See **figure 2**.
    Ex1:

```
Enter an integer: 1634
1634 is an Armstrong number.
```

    Ex2:

```
Enter an integer: 151
151 is not an Armstrong number.
```

Figure 02

Question 3: [60 marks]

    Writing a program to manage student in list. See **figure 03**.
    1. Ask user how many students would like to manage (Valid range in 1 - 10) Hỏi người dùng muốn quản lý bao nhiêu sinh viên (5 marks)
    2. Accept the value from the user Chấp nhận giá trị từ người dùng (15 marks)
    3. Ask user enter Rollno to search. Yêu cầu người dùng nhập Rollno để tìm kiếm. (40 marks)

      - If student is found, display student information. - Nếu tìm thấy sinh viên, hiển thị thông tin sinh viên.

      - Otherwise, raising an error: the student does not exist - Nếu không, báo lỗi: sinh viên không tồn tại..

    Ex:

```
How many students would you like to manage: 100
The number is invalid! Press any key to continue

How many students would you like to manage: 2

Enter student 1 name: Le Van A
Enter Rollno: student0001
Enter marks: 100

Enter student 2 name: Tran Van B
Enter Rollno: student0002
Enter marks: 90
Enter Rollno to search: student0001
Student List Information:
  Rollno         Name          Marks
------------|------------|-----------
student0001   Le Van A        100
```