AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH
Faculty of Science and Information Technology
Department of Computer Science
CSC 2106 Computer Organization and Architecture (Section: A and E)
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Lab task: Flow Control Structures   **Date: 14/10/2015**

1. Write a program to display a "?", read two capital letters, and display them on the next line in *alphabetical order*.

2. Write a program to display the **extended** ASCII characters (ASCJI codes 80h to FFh). Display 10 characters per line, separated by blanks. Stop after the *extended characters* have been displayed once.

3. Write a program that will prompt the user to enter a hex digit character ("0"-"9" or "A"-"F"), display it on the next line in decimal, and ask the user if he or she wants to do it again?
   - If the user types "y" or "Y", the program repeats;
   - If the user types anything else, the program terminates.
   - If the user enters an illegal character, prompt the user to try again.

Sample Execution:

```
Enter a hex digit:  9
In decimal is it: 9
Do you want to do it again? Y
Enter a hex digit: c
Illegal character - enter 0-9 or A-F: C
In decimal it is 12
Do you want to do it again? N
```

4. Do the programming-exercise 3, except that if the user fails to enter a hex-digit character In three tries, display a message and terminate the program. ·

5. Write a program that reads a string of capital letters, ending with a carriage return, and displays the longest sequence of consecutive alphabetically increasing capital letters read.

   Sample Execution:

```
Enter a String of Capital Letters: FGHADEFGHC
The LONGEST Consecutively Increasing String Is: DEFGH
```