1) Write a Java program that assigns a grade based on the value of a test score: an ‘A’ for a score of 90% or above, a ‘B’ for a score of 80% or above, and so on.

```
class IfElseDemo {
  public static void main(String[] args) {

     int testscore = 76;
     char grade;

     if (testscore >= 90) {
         grade = 'A';
     } else if (testscore >= 80) {
         grade = 'B';
     } else if (testscore >= 70) {
         grade = 'C';
     } else if (testscore >= 60) {
         grade = 'D';
     } else {
         grade = 'F';
     }
     System.out.println("Grade = " + grade);
 }
}
```

2) Write a Java program that asks the user about his/her age and displays the one of following messages based on the age:

“User is 18 or younger”, “User is between 19 and 39”, or “User is 40 or older”

```
import java.util.*;
class AgeRange{
  public static void main (String[] args){
    Scanner scan = new Scanner(System.in);
    System.out.print ("Please enter your age: ");
    int age = scan.nextInt();

    /* solution 1
    if (age <= 18)
        System.out.println ("User is 18 or younger");
    else if (age < 40)
        System.out.println ("User is between 19 and 39");
    else
        System.out.println ("User is 40 or above");
    */

    //Another solution

    if (age <= 18)
        System.out.println ("User is 18 or younger");
    if (age >18 && age < 40)
         System.out.println ("User is between 19 and 39");
    if (age >= 40)
         System.out.println ("User is 40 or above");

  }
}
```