**Task**

Write the java code to produce a menu which loops until the user enters a 1,2,3 or q to quit. If the user enters any of the digits it should output a relevant message (eg Do task 1)

**Source code**

import java.io.\*;

public class Functions {

//-----------------------------------------------------------

 public static void main(String[] args) {

 // Using functions - modular programming

 System.out.print("\n\tFunctions 1.0");

 MainMenu();

 }

//-----------------------------------------------------------

 public static void MainMenu() {

 String choice = " ";

 while(!choice.equals("q")) {

 System.out.print(

 "\n\t----------Main Menu----------" +

 "\n\t1. Item 1" +

 "\n\t2. Item 2" +

 "\n\t3. Item 3" +

 "/n\t4. Item 4" +

 "\n\t(Q)uit\n\n\t"

 );

 choice=Input().toLowerCase();

 switch(choice.charAt(0)) {

 case '1': System.out.print("\n\tDo Task 1."); break;

 case '2': System.out.print("\n\tDo Task 2."); break;

 case '3': System.out.print("\n\tDo Task 3."); break;

 case 'q': System.out.print("\n\tExiting Main Menu"); break;

 default: System.out.print("\n\tInvalid Input!");

 }

 } //end while true loop

 }

//-----------------------------------------------------------

 public static String Input() {

 LineNumberReader In = new LineNumberReader(

 new InputStreamReader(System.in));

 String Temp =" ";

 try {Temp =In.readLine();}

 catch(IOException X)

 {System.out.print("\n\tIO Error!");}

 return Temp;

 }

}

**Program Output**

