**Input Ranges**

Write a full program where the user enters a questionnaire result value of 1, 2, 3, or 4 and the program displays the message “Very unhappy” for 1, “Unhappy” for 2, “Happy” for 3 and “Very Happy” for 4. The program should output an error message if an out of range value is entered.

**Test Data – Examples**





**Solution – Java Source Code**

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**public** **class** WithinRange {

 **public** **static** **void** main(String[] args) {

 **int** choice=0;

 BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.***in***));

 System.***out***.println("Questionnaire Result Prog\n");

 System.***out***.println("Please enter your choice (between 1 and 4):");

 **try** {

 choice = Integer.*parseInt*(br.readLine());

 } **catch** (NumberFormatException e) {

 // **TODO** Auto-generated catch block

 e.printStackTrace();

 } **catch** (IOException e) {

 // **TODO** Auto-generated catch block

 e.printStackTrace();

 }

 **if** ((choice < 1) || (choice >4))

System.***out***.println("Invalid number!! Choose a number between 1 and 4");

 **else**

 {

 **switch**(choice) {

 **case** 1:

 System.***out***.println("Very Unhappy = " + choice);

 **break**;

 **case** 2:

 System.***out***.println("Unhappy = " + choice);

 **break**;

 **case** 3:

 System.***out***.println("Happy " + choice);

 **break**;

 **case** 4:

 System.***out***.println("Very Happy " + choice);

 **break**;

 **default**:

 System.***out***.println("Please try again");

 **break**;

 }

 }

 }

}