Getting input from Keyboard

Sang Shin
JPassion.com
"Code with Passion!"

Topics

- Two ways getting user input
  - > Getting input from command-line (using BufferedReader class)
  - > Getting input from GUI (using JOptionPane class)
- Converting user-entered "String" type value to "int" type value
  - > For example, capturing age of a person

Getting Input from Command-line

Getting Input from Command-line

- We will use *BufferedReader* class
  - > Can be used to read a line typed by a user
  - > Belongs to *java.io* package
- We will about this class in detail later on in Java IO Stream so don't worry too much about it for now

Steps to Get Command-line input

- Import java.io package

  import java.io.*;

- Create BufferedReader object

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

- Declare a temporary String variable to get the input, and invoke the readLine() method to get input from the keyboard. You have to type it inside a try-catch block.

  try{
  *   String temp = dataIn.readLine();*
  } catch(IOException e){
  *   System.out.println("Error in getting input");*
  }

5

Complete Program

```java
import java.io.*;


public class GetInputFromKeyboard {

    public static void main( String[] args ){
        BufferedReader dataIn = new BufferedReader(
                new InputStreamReader( System.in) );

        String name = "";
        System.out.print("Please Enter Your Name:");
        try {
            name = dataIn.readLine();
        } catch( IOException e ){
            System.out.println("Error!");
        }
        System.out.println("Hello " + name +"!");
    }
}
```

Lab:

Exercise 1: Getting input using BufferedReader
1004_javase_inputkey.zip

Converting user-entered "String" type value to "int"

Converting String type to int type

- User entered values are always received in "String" type
    - > When you ask a user to enter an age, the value "34" will be received as "String" type
- In order to perform computation, you have to convert "34" String type to 34 int type
    - > You can use *Interger.parseInt(..)* method of *Integer* class

    // Convert the String type of age variable into int primitive type variable ageint.
    int ageint = Integer.parseInt(age);

JOptionPane Class

JOptionPane class

- Used to prompt a user to enter some data or display some data

```java
import javax.swing.JOptionPane;

public class GetInputFromKeyboard {

  public static void main( String[] args ){
      String name = "";
      name=JOptionPane.showInputDialog("Please enter your name");
      String msg = "Hello " + name + "!";
      JOptionPane.showMessageDialog(null, msg);
  }
}
```

Sample Program Output

Lab:

Exercise 2: Getting input using JOptionPane
1004_javase_inputkey.zip

Code with Passion!
JPassion.com