

# Java Basics Part 3 Notes

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May 21, 2020

## 1 Reviewing our Feedback

- *System.exit(...);*
  - Causes the program to exit
  - *System.exit(0)* → means program exited intentionally
  - *System.exit(1)* → means program exited abnormally

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          Console console = System.console();
6
7          int age = 13;
8          if (age < 13) {
9              console.printf("Sorry. You must be 13 years to use
10             this program");
11              System.exit(0);
12          }
13
14          String name = console.readLine("Enter name:  "); // <-
15             Let's write 'Moe' here
16          String adjective = console.readLine("Enter adjective:  ")
17             ; // <- and 'glad to be with his love' here :)
18          console.printf("%s is very %s\n", name, adjective);
19      }
20  }
```

## 2 Exercise 1

- Solution included in *exercise\_1.java*

## 3 Parsing Integers

- *Integer.parseInt(...)*
  - Extracts integer from string
  - Is also called **typecasting**

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          Console console = System.console();
6
7          String ageString = console.readLine("How old are you?
8
9          ");
10
11         int age = 13;
12         if (Integer.parseInt(ageString) < 13) { // <- Here :)
13             console.printf("Sorry. You must be 13 years to use
14             this program");
15             System.exit(0);
16         }
17
18         String name = console.readLine("Enter name:  "); //
19         <- Let's write 'Moe' here
20         String adjective = console.readLine("Enter adjective:
21         "); // <- and 'glad to be with his love' here :)
22         console.printf("%s is very %s\n", name, adjective);
23     }
24 }
```

## 4 Exercise 2

- Solution included in *exercise\_2.java*

## 5 Censoring Words - Using String Equality

- *STRING\_VAR.equals(...)*
  - Checks if value in *STRING\_VAR1* is equal to parameter value

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          ...
6
7          String noun = console.readLine("Enter noun:  ");
8
9          if (noun.equals("Dork")) { // <- Here :)
10             console.printf("The language is not allowed. Exiting\n
11 ");
12             System.exit(0);
13         }
14         ...
15     }
16 }
17
```

- *STRING\_VAR.equalsIgnoreCase('...')*
  - Checks if value in *STRING\_VAR1* is equal to parameter
  - Case is ignored value

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          ...
6
7          String noun = console.readLine("Enter noun:  ");
8
9          if (noun.equalsIgnoreCase("Dork")) { // <- Here :)
10             console.printf("The language is not allowed. Exiting\n
11 ");
12             System.exit(0);
13         }
14         ...
15     }
16 }
17
```

## 6 Exercise 3

- Solution included in *exercise\_3.java*

## 7 Censoring Words - Using Logical ORs

- '——' symbol is used

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          ...
6
7          String noun = console.readLine("Enter noun:  ");
8
9          if (noun.equalsIgnoreCase("Dork") || // <- Here :)
10             noun.equalsIgnoreCase("Jerk")) {
11              console.printf("The language is not allowed. Exiting\n
12              ");
13              System.exit(0);
14          }
15          ...
16      }
17  }
18
```

## 8 Quiz 1

1. Assuming that Sara has taken the Java and Python tracks, what is the value of isFamiliar below:

```
1  boolean isFamiliar = (
2      learnedJava ||
3      learnedPython ||
4      learnedRuby
5  );
6
```

- A. True
- B. Yes

**Answer: A**

2. Assuming age is set to 42, what is the value stored in the boolean answer:

```
1  boolean answer = (age < 40 || age > 50);
2
```

- A. True
- B. False

**Answer: B**

3. Carlos is just getting started and he has completed the HTML and CSS courses. What answer is stored in the boolean `isQualified` below:

```
1  boolean isQualified = (  
2      learnedHTML &&  
3      learnedJavaScript &&  
4      learnedCSS  
5  );  
6
```

- A. True
- B. False

**Answer: B**

4. If Bob is 50, has 3 children, and works for a software company, what is the answer to this logical statement:

```
1  age > 30 || children < 3 || isEmployed  
2
```

- A. True
- B. False

**Answer: A**

5. Assuming that `count` below is set to 90, what is stored in the boolean `answer`:

```
1  boolean answer = (count > 30 && count < 120);  
2
```

- A. True
- B. False

**Answer: A**

## 9 Looping Until the Value Passes

- Is done using *do while* loop

```
1  import java.io.Console;
2
3  public class Introductions {
4      public static void main(String[] args) {
5          ...
6
7          String noun;
8
9          do { // <- Here :)
10             noun = console.readLine("Enter a noun:  ");
11             if (noun.equalsIgnoreCase("Dork") ||
12                 noun.equalsIgnoreCase("Jerk")) {
13                 console.printf("The language is not allowed. Try
again\n");
14             }
15             } while(noun.equalsIgnoreCase("Dork") || noun.
equalsIgnoreCase("Jerk"))
16
17
18         ...
19     }
20 }
21
```

## 10 Exercise 4

- Solution included in *exercise\_4.java*