

Java Basics Part 3 Notes

Team Treehouse

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         int age = 13;
11         if (Integer.parseInt(ageString) < 13) { // <- Here :)
12             console.printf("Sorry. You must be 13 years to use
13             this program");
14             System.exit(0);
15         }
16
17         String name = console.readLine("Enter name:  "); //
18         <- Let's write 'Moe' here
19         String adjective = console.readLine("Enter adjective:
20         "); // <- and 'glad to be with his love' here :)
21         console.printf("%s is very %s\n", name, adjective);
22     }
23 }
```

4 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 }
```

```

12         }
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

```

5 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

```

```
15         ...
16     }
17 }
18
```

6 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