

## Answers to Self-Review Exercises

1. Fill in the blanks in each of the following statements

My answers

- 1.1. Open brace, close brace
- 1.2. If statement
- 1.3. //
- 1.4. Tab, space, newline
- 1.5. Keywords
- 1.6. Main
- 1.7. Print, println, printf

2. State whether each of the following is true or false. If false explain why

My answers

- 2.1. False  
The compiler ignores comments
- 2.2. True
- 2.3. False  
Variables number and NuMbEr are treated as different variables
- 2.4. True
- 2.5. False  
\* / and % have a higher level of precedence than + and –
- 2.6. False  
The \_(underscore) identifier cannot be used on its own

3. Write statements to accomplish each of the following tasks

My answers

- 3.1. Variables
  - 3.1.1. `Int c = 0;`
  - 3.1.2. `Int thisIsAVariable = 0;`
  - 3.1.3. `Int q76354 = 0;`
  - 3.1.4. `Int number = 0;`
- 3.2. `System.out.print("Enter an integer:");`
- 3.3. Integer input and assignment
  - 3.3.1. `Scanner input=new Scanner(System.in);`
  - 3.3.2. `int value=input.nextInt();`
- 3.4. `System.out.println("This is a Java program");`
- 3.5. Print statement on two lines
  - 3.5.1. `System.out.printf("%s\n%s\n", "This is a Java", "program");`
- 3.6. `If(number!=7)`  
{  
    `System.out.println("variable is not equal to 7");`

}

4. Identify and correct the errors in each of the following statements

My answers

- 4.1. Error: semicolon is put before the if statement condition  
Solution: remove semicolon after the if statement condition
- 4.2. Error: the relational operator in the if statement condition is put incorrectly (=>)  
Solution: put the relational operator in the if statement correctly (>=)
5. Write declarations, statements or comments that accomplish each of the following tasks
- 5.1. //program inputs integers and calculates the product
- 5.2. Scanner input= new Scanner("System.in");
- 5.3. System.out.print("Enter first integer:");
- 5.4. Int x=input.nextInt();
- 5.5. System.out.print("Enter second integer");
- 5.6. Int y=input.nextInt();
- 5.7. System.out.print("Enter third integer");
- 5.8. Int z=input.nextInt();
- 5.9. Int result=x\*y\*z;
- 5.10. System.out.printf("product is %d%n",result);
6. My answer

```
//Self Review Exercise 2.6
//program inputs integers and calculates the product

import java.util.Scanner; //Program uses class Scanner

public class SelfReview6
{
    //main method begins execution of Java application
    public static void main(String[] args)
    {
        Scanner input= new Scanner("System.in");

        System.out.print("Enter first integer:");
        int x=input.nextInt();

        System.out.print("Enter second integer");
        int y=input.nextInt();

        System.out.print("Enter third integer");
        int z=input.nextInt();

        int result=x*y*z;

        System.out.printf("product is %d%n",result);
    }
}
```

```
C:\Users\RORI>cd/Users/RORI/Desktop/Learning Java/ch2/Self Review Exercises/SelfReview6

C:\Users\RORI\Desktop\Learning Java\ch2\Sel Self Review Exercises\S SelfReview6>javac SelfReview6.java

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>java SelfReview6
Enter first integer:Exception in thread "main" java.util.InputMismatchException
    at java.util.Scanner.throwFor(Scanner.java:864)
    at java.util.Scanner.next(Scanner.java:1485)
    at java.util.Scanner.nextInt(Scanner.java:2117)
    at java.util.Scanner.nextInt(Scanner.java:2076)
    at SelfReview6.main(SelfReview6.java:14)

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>javac SelfReview6.java

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>java SelfReview6
Enter first integer:5
Enter second integer9
Enter third integer3
product is 135

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>javac SelfReview6.java

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>java SelfReview6
Enter first integer:3
Enter second integer:3
Enter third integer:5
Product is 45

C:\Users\RORI\Desktop\Learning Java\ch2\S Self Review Exercises\S SelfReview6>
```