



# ***Object-Oriented Programming***

Practice Day1

## 2.7.2 Translate the following algorithm into Java code:

**Step 1:** Declare a **double** variable named **miles** with an initial value **100**.

**Step 2:** Declare a **double** constant named **KILOMETERS\_PER\_MILE** with value **1.609**.

**Step 3:** Declare a **double** variable named **kilometers**, multiply **miles** and **KILOMETERS\_PER\_MILE**, and assign the result to **kilometers**.

**Step 4:** Display **kilometers** to the console.  
What is **kilometers** after Step 4?

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How to receive miles from user instead of declare miles?

## 2.7.2 Translate the following algorithm into Java code:

**TABLE 2.2** Methods for Scanner Objects

<i>Method</i>	<i>Description</i>
<code>nextByte()</code>	reads an integer of the <b>byte</b> type.
<code>nextShort()</code>	reads an integer of the <b>short</b> type.
<code>nextInt()</code>	reads an integer of the <b>int</b> type.
<code>nextLong()</code>	reads an integer of the <b>long</b> type.
<code>nextFloat()</code>	reads a number of the <b>float</b> type.
<code>nextDouble()</code>	reads a number of the <b>double</b> type.

How to receive miles from user instead of declare miles?

**2.10.2 Which of the following are correct literals for floating-point numbers?**

**12.3, 12.3e+2, 23.4e-2, -334.4, 20.5, 39F, 40D**

**2.10.3 Which of the following are the same as 52.534?**

**5.2534e+1, 0.52534e+2, 525.34e-1, 5.2534e+0**

**2.10.4 Which of the following are correct literals?**

**5\_2534e+1, \_2534, 5\_2, 5\_**

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### Question 3. Sum the digits

## **\*\*2.6** (*Sum the digits in an integer*)

Write a program that reads an integer between **0** and **1000** and adds all the digits in the integer.

For example, if an integer is **932**, the sum of all its digits is **14**.

*Hint:* Use the **%** operator to extract digits, and use the **/** operator to remove the extracted digit.

For instance, **932 % 10 = 2** and **932 / 10 = 93**.

Here is a sample run:

```
Enter a number between 0 and 1000: 999 ↵ Enter
The sum of the digits is 27
```

## Question 3. Stdin and Stdout

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The screenshot shows the HackerRank website with a navigation bar at the top containing links for Products, Solutions, Resources, Pricing, For Candidates, Request Demo, and a Get Started button. The main content is split into two columns. The left column, titled 'For Companies' with a 'BUSINESS' tag, describes the platform as a market-leading technical interview tool and includes a 'Login' button and a link to 'Contact sales or Get free trial.' The right column, titled 'For Developers', invites over 21 million developers to practice coding and includes a 'Login' button. A '2023 Developer Skills Report' pop-up is visible on the right, offering to discover in-demand skills and languages. The footer features logos for Peloton, Atlassian, Bloomberg, VMware, Stripe, Goldman Sachs, Adobe, and LinkedIn, along with a cookie policy notice.

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## Question 3. Stdin and Stdout

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<https://www.hackerrank.com/>

# *Introduction to Java*

*The term Java from Java island...*

*JIU IT Major 20230124 PMJ, AEJ*