



JIU IT Major 20230124 PMJ, AEJ

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?

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TABLE 2.2 Methods for Scanner Objects

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

<https://replit.com/teams/join/qfcyrawhaqvfuacbexyuyplijxjmhrqk-object-oriented-programming>

The screenshot shows the Replit Teams interface for a team named 'object-oriented-programming'. The interface is dark-themed. On the left is a sidebar with navigation links: Home, Templates, My Repls, My Cycles (0), Themes, Community, Bounties, Learn, Teams, and Curriculum. At the bottom of the sidebar are links for About, Pricing, Blog, Forum, Careers, Terms, and Mobile App, along with a 'spooky' status indicator and a 'Help' button. The main content area shows the team's profile with a yellow robot icon, the team name, and a handle '@object-oriented-programming'. Below this is a 'Manage team members' button. A section titled 'Who's coding (0 / 4)' indicates that no team members are online. At the bottom, there are buttons for 'Create project', 'Projects overview', and 'Share projects'. A table titled 'Week2' displays project information:

TITLE	DUE DATE	SUBMISSIONS	PUBLISHED
Q1.KilometerPerMile	1/24/2023 12:00 AM	View submissions 0 of 0 started 0 of 0 submitted	<input type="checkbox"/>



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

https://www.hackerrank.com/

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

The screenshot displays the HackerRank 'Prepare' interface. At the top, the navigation bar includes 'HackerRank', 'PREPARE' (highlighted with a 'NEW' badge), 'CERTIFY', and 'COMPETE'. A search bar and user profile 'Mandy5G' are on the right. The main heading is 'Prepare', with a link to 'Bookmarked Challenges'. Under 'Your Preparation', there are two topic cards:

- Java**: Shows 'PREPARE BY TOPICS', a progress bar at 12%, and the text 'Get to 25 points to unlock this badge'. A green 'Continue Preparation' button is at the bottom.
- Problem Solving**: Shows 'PREPARE BY TOPICS', a progress bar at 30%, and the text '(49 points to next star)'. A green 'Continue Preparation' button is at the bottom.

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

Introduction to Java

The term Java from Java island...

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