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?**

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?

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

Method	Description
nextByte()	reads an integer of the **byte** type.
nextShort()	reads an integer of the **short** type.
nextInt()	reads an integer of the **int** type.
nextLong()	reads an integer of the **long** type.
nextFloat()	reads a number of the **float** type.
nextDouble()	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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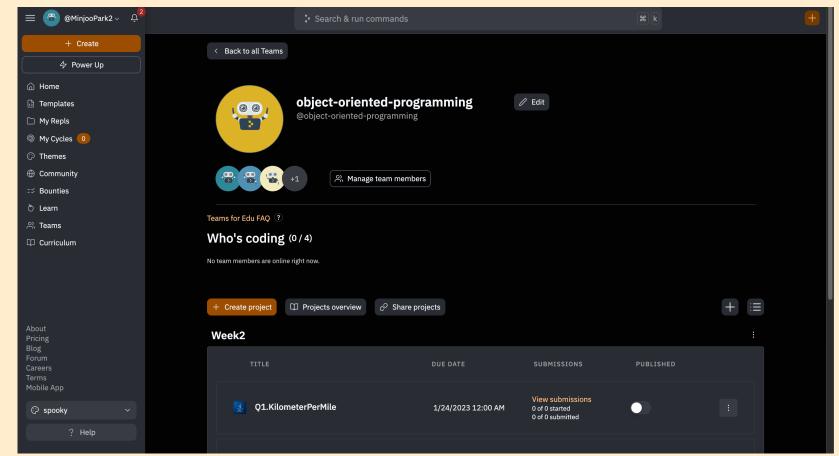
(12.3.) (12.3e+2,) (23.4e-2,) (-334.4,) (20.5,) 39F, 40D

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?

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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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**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.

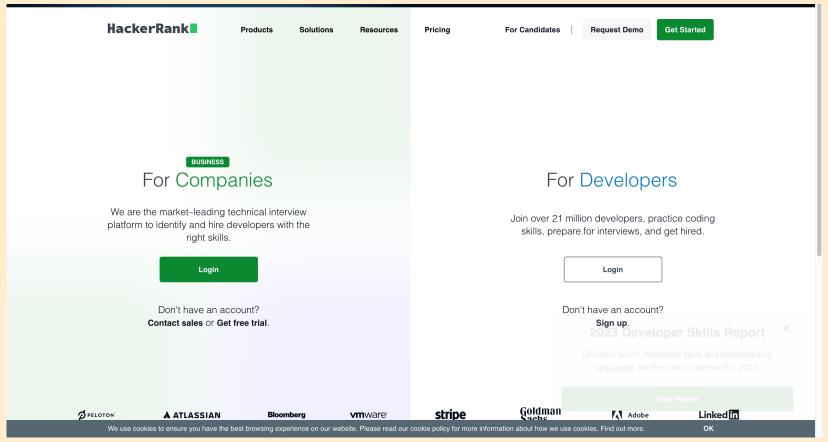For instance, 932 % 10 = 2 and 932 / 10 = 93.

Here is a sample run:

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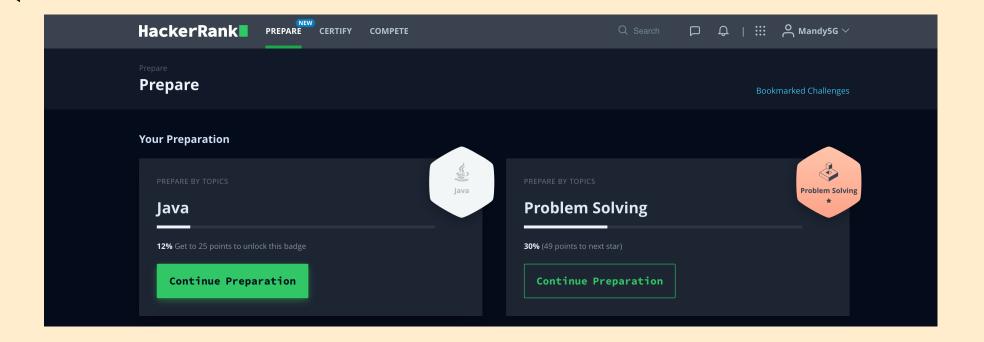
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Introduction to Java

The term Java from Java island....