

# Practice Looping Constructs



## **Practice Exercises**

- Practice 1: Add Number
- Practice 2: Reverse Digit
- Practice 3: Sum of Even and Odd



## **PRACTICE 1**

## **Practice 1: Add Number**

John has to add all the numbers from 1 to 100. Help John complete the task using a loop.

Note: Steps to do this practice is given in the upcoming slide.

# **Practice 1: Tasks**

- Write a class called AddNumber.
- Inside the class, write the main method.
- Write all the lines of the code inside the main method.
- Use loop to iterate through numbers starting from 1 to 100 and add them.
- Store the sum of all the numbers in a variable and print the sum.



## PRACTICE 2

# **Practice 2: Reverse Digits**

Ron and Steve are playing a reverse number game where one has to give an integer to the other.

The other person receiving the integer needs to reverse the number and display the output.

If any one of them fails to reverse the number, the game ends.

Write a Java program to reverse the number, store the reversed number in a variable, and print it.

Note: Steps to do this practice are given in the upcoming slide.

# **Practice 2: Tasks**

- Write a class ReverseDigit.
- Inside the class write the main method.
- Write all the lines of code inside the main method.
- Accept the number as input from the user utilizing the Scanner and store it in a variable.
- Write the logic to reverse the number.
- Display the reversed number.
  - Sample Input 12131
  - Sample Output 13121
  - Sample Input 34567
  - Sample Output 76543

## Sample Input

-21

#### **Expected Output**

Note that the output must contain the below lines in the same format.

Input number cannot be negative.

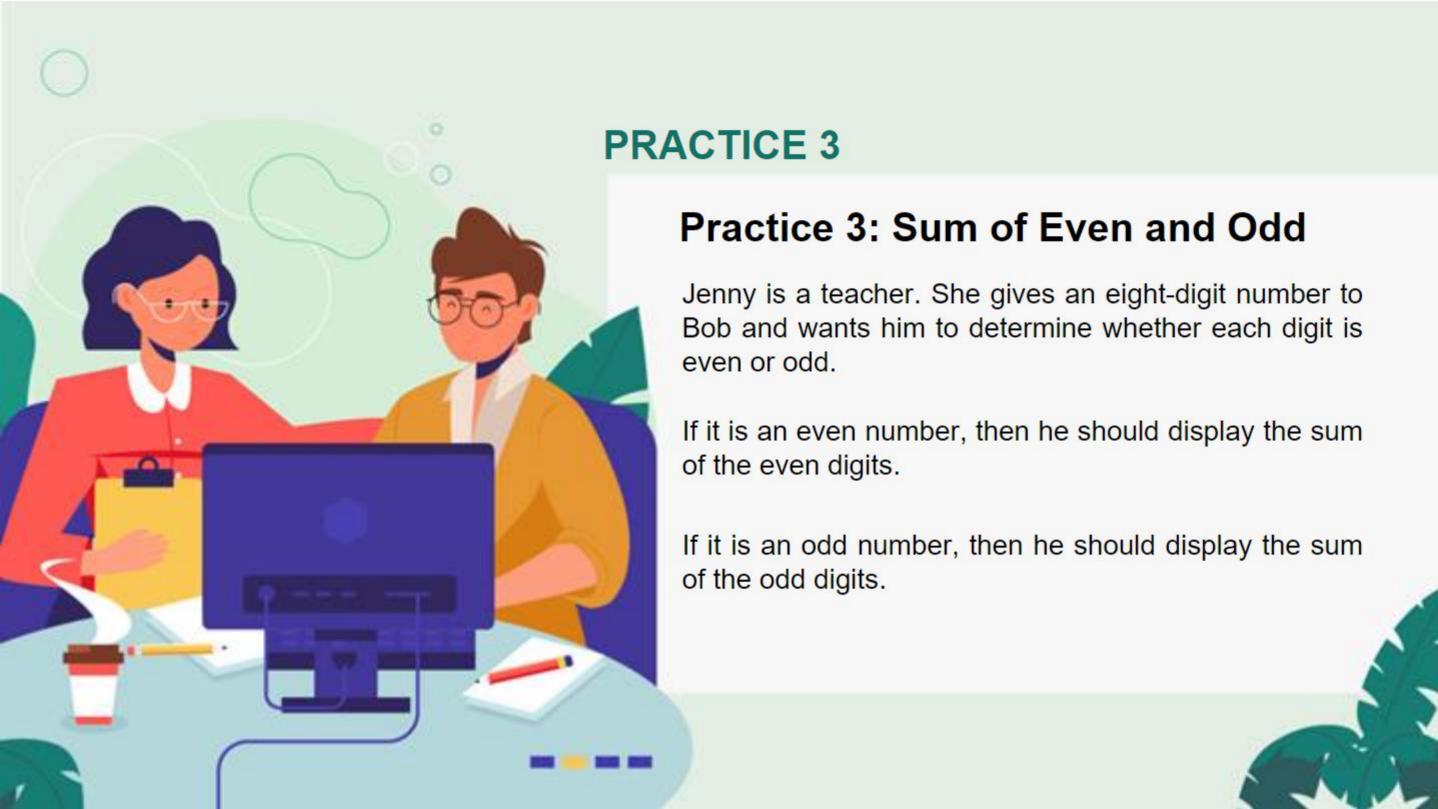
## Sample Input

4567364

## **Expected Output**

Note that the output must contain the below lines in the same format.

The reverse of the given number is: 4637654.



# **Practice 3: Tasks**

- Write a class called EvenOddSum.
- Inside the class write the main method.
- Write all the lines of code inside the main method.
- Accept an eight-digit number as input from the user utilizing the Scanner and store it in a variable.
- Pick each digit of the number and check if it is odd or even.
  - If the digit is even, add all the even numbers and store the sum in a variable.
  - If the digit is odd, add all the odd numbers and store the sum in a variable.
  - Display both the variables.

#### Sample Input

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#### **Expected Output**

Note that the output must contain the below lines in the same format.

Input number cannot be negative.

#### Sample Input

4567364

## **Expected Output**

Note that the output must contain the below lines in the same format.

```
Sum of even numbers 20.
Sum of odd numbers 15.
```