JAVA - J2EE Batch 2

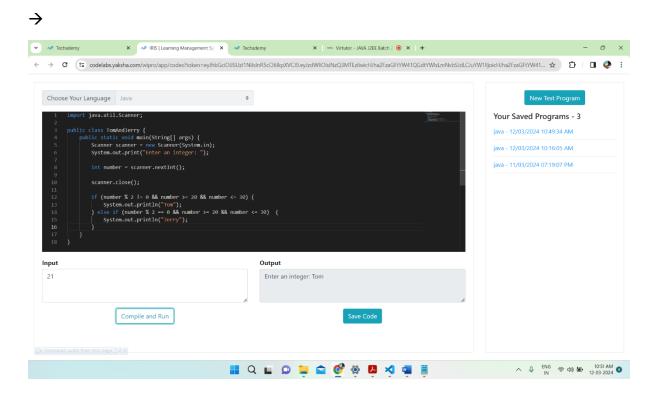
Name – Aman Yadav

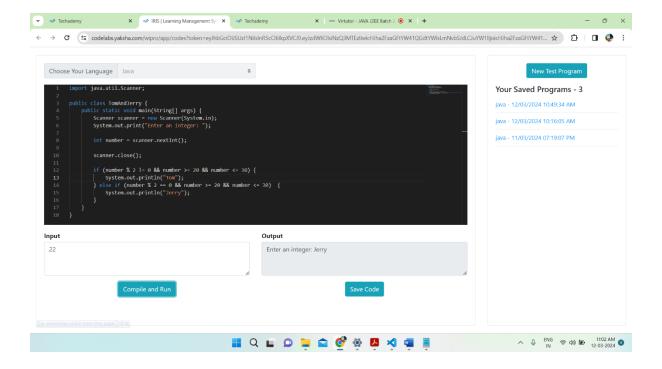
E-mail: prakashaman5@gmail.com

Phone: +919519131321

Assignment-1

- 1. Write a program which accepts an integer number as input from the user and perform the following conditional checks:
 - a. Print Tom if number is odd and exists between 20 to 30
 - b. Print Jerry, if number is even and exists between 20 and 30





2. Write a program which accepts a number as input and check whether the given number is palindrome or not If it is a palindrome then

a. Add all the even numbers and check whether the sum is more than 25. b. Print success and failure messages for all 3 conditions

Input: `2468642`

Output: `2468642 is palindrome and the sum of even numbers is greater than 25`

Input: `12345`

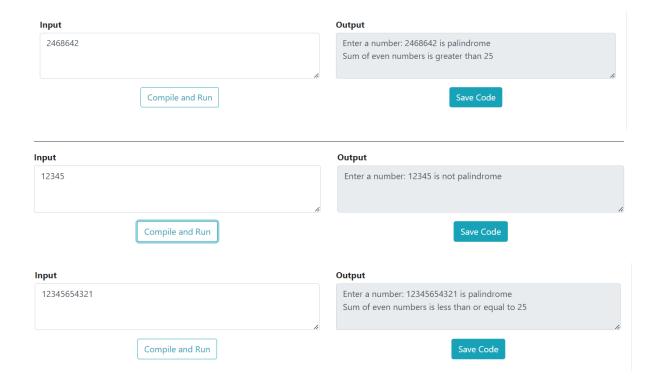
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Output: `12345 is not palindrome`

Input: `12345654321`

Output: `12345654321 is palindrome and sum of even numbers is less than 25`

```
import java.util.Scanner;
public class PalindromeCheck {
    Run|Debug
public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print(s:"Enter a number: ");
        long number;
            number = scanner.nextLong();
        if (isPalindrome(number)) {
             System.out.println(number + " is palindrome");
             long evenSum = sumOfEvenDigits(number);
             if (evenSum > 25) {
                 System.out.println(x:"Sum of even numbers is greater than 25");
             } else {
                 System.out.println(x:"Sum of even numbers is less than or equal to 25");
             System.out.println(number + " is not palindrome");
        scanner.close();
    private static boolean isPalindrome(long num) {
         long originalNum = num;
        long reverseNum = 0;
    while (num > 0) {
        long digit = num % 10;
reverseNum = reverseNum * 10 + digit;
        num /= 10;
    return originalNum == reverseNum;
private static long sumOfEvenDigits(long num) {
   long sum = 0;
   while (num > 0) {
    long digit = num % 10;
    if (digit % 2 == 0) {
            sum += digit;
        num /= 10;
    return sum;
```



3. Write a program that reads an unspecified number of integer arguments using Scanner Class and adds them together. The program should display the total of the given input number and should only consider integer value. The program should display an error message if there are any non-integer values

Input: 12 23 2 4

Output: 41

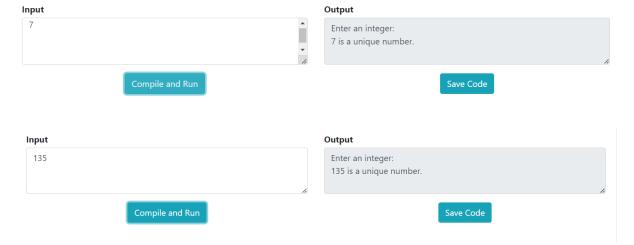
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4. Write a program to find whether input integer is Unique or not. A Unique number is a positive integer (without leading zeros) with no duplicate digits. For example 7, 135, 214 are all unique numbers whereas 33, 3121, 300 are not.

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Input		Output
214		Enter an integer: 214 is a unique number.
	Compile and Run	Save Code
Input		Output
33		Enter an integer: 33 is not a unique number.
	Compile and Run	Save Code
Input		Output
300		Enter an integer: 300 is not a unique number.
	Compile and Run	Save Code
Input		Output
3121		Enter an integer: 3121 is not a unique number.
	Compile and Run	Save Code