SOLUTION 1

public class Solution\_1  
{  
 public static void main(String[] args)  
 {  
 // Using for loop to print numbers from 10 to 50  
 for (int i = 10; i <= 50; i++)  
 {  
 System.*out*.println(i);  
 }  
 }  
}

OUTPUT:

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SOLUTION 2

import java.util.Scanner;  
  
public class Solution\_2  
{  
 public static void main(String[] args)  
 {  
 // Create a Scanner object to read input  
 Scanner scanner = new Scanner(System.*in*);  
  
 // Prompt the user to enter a number  
 System.*out*.print("Enter a number: ");  
 double number = scanner.nextDouble(); // Read the number  
  
 // Check if the number is positive, negative, or zero  
 if (number > 0)  
 {  
 System.*out*.println(number + " is positive.");  
 }  
 else if (number < 0)  
 {  
 System.*out*.println(number + " is negative.");  
 }  
 else  
 {  
 System.*out*.println("The number is zero.");  
 }  
  
 // Close the scanner  
 scanner.close();  
 }  
}

OUTPUT

Enter a number: -4

-4.0 is negative.

SOLUTION 3

import java.util.Scanner;  
  
public class Solution\_3  
{  
 public static void main(String[] args)  
 {  
 // Create a Scanner object to read input  
 Scanner scanner = new Scanner(System.*in*);  
  
 // Prompt the user to enter a number  
 System.*out*.print("Enter a number: ");  
 int number = scanner.nextInt(); // Read the number  
  
 int reversedNumber = 0; // Variable to store the reversed number  
  
 // While loop to reverse the number  
 while (number != 0)  
 {  
 int digit = number % 10; // Get the last digit  
 reversedNumber = reversedNumber \* 10 + digit; // Append the digit to the reversed number  
 number = number / 10; // Remove the last digit from the number  
 }  
  
 // Print the reversed number  
 System.*out*.println("Reversed number: " + reversedNumber);  
  
 // Close the scanner  
 scanner.close();  
 }  
}

OUTPUT

Enter a number: 908

Reversed number: 809

SOLUTION 4

import java.util.Scanner;  
  
public class Solution\_4  
{  
 public static void main(String[] args)  
 {  
 // Create a Scanner object to read input  
 Scanner scanner = new Scanner(System.*in*);  
  
 // Prompt the user to enter three numbers  
 System.*out*.print("Enter the first number: ");  
 int num1 = scanner.nextInt();  
  
 System.*out*.print("Enter the second number: ");  
 int num2 = scanner.nextInt();  
  
 System.*out*.print("Enter the third number: ");  
 int num3 = scanner.nextInt();  
  
 // Find the smallest number  
 int smallest = num1; // Assume num1 is the smallest initially  
  
 if (num2 < smallest)  
 {  
 smallest = num2; // Update smallest if num2 is smaller  
 }  
  
 if (num3 < smallest)  
 {  
 smallest = num3; // Update smallest if num3 is smaller  
 }  
  
 // Output the smallest number  
 System.*out*.println("The smallest number is: " + smallest);  
  
 // Close the scanner  
 scanner.close();  
 }  
}

OUTPUT

Enter the first number: 8

Enter the second number: 5

Enter the third number: 9

The smallest number is:5

SOLUTION 5

import java.util.Scanner;  
  
public class Solution\_5  
{  
 public static void main(String[] args)  
 {  
 // Create a Scanner object to read input  
 Scanner scanner = new Scanner(System.*in*);  
  
 // Prompt the user to enter the purchase amount  
 System.*out*.print("Enter the purchase amount: ");  
 double purchaseAmount = scanner.nextDouble();  
  
 double finalAmount; // Variable to store the final amount after applying discount  
  
 // Apply discount based on purchase amount  
 if (purchaseAmount < 500)  
 {  
 finalAmount = purchaseAmount; // No discount applied  
 }  
 else if (purchaseAmount >= 500 && purchaseAmount <= 1000)  
 {  
 finalAmount = purchaseAmount - (purchaseAmount \* 0.10); // 10% discount  
 }  
 else  
 {  
 finalAmount = purchaseAmount - (purchaseAmount \* 0.20); // 20% discount  
 }  
  
 // Output the final payable amount  
 System.*out*.println("The final payable amount after discount is: " + finalAmount);  
  
 // Close the scanner  
 scanner.close();  
 }  
}

OUTPUT

Enter the purchase amount: 800

The final payable amount after discount is: 720.0

SOLUTION 6

public class Solution\_6 {  
 public static void main(String[] args) {  
 *print*(5);  
 }  
  
 public static void print(int n){  
 for(int i=1;i<=n;i++){  
 for(int j=1;j<=n;j++){  
 System.*out*.print(n-i+1);  
 }  
 System.*out*.println();  
 }  
 }  
}

OUTPUT

55555

44444

33333

22222

11111