

Rajalakshmi Engineering College

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Branch: REC

Department: AI & ML - Section 3

Batch: 2028

Degree: B.E - AI & ML

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 1_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 15

Section 1 : MCQ

1. Which of the following data types is used to store floating-point numbers with greater precision?

Answer

double

Status : Correct

Marks : 1/1

2. What is the output of the following code?

```
import java.util.*;
```

```
class RelationalOperatorExample {  
    public static void main(String[] args) {  
        int x = 8, y = 4;
```

```
        boolean result = (x != y);  
        System.out.println(result);  
    }  
}
```

Answer

true

Status : Correct

Marks : 1/1

3. What is the output of the following code?

```
class TestClass {  
    public static void main(String[] args) {  
        int count = 8;  
        count = count ^ 1;  
  
        System.out.println(count);  
    }  
}
```

Answer

9

Status : Correct

Marks : 1/1

4. What will be the output of the following code snippet?

```
class DivisionExample {  
    public static void main(String[] args) {  
        double num1 = 10.5;  
        double num2 = 3;  
        int result = (int)(num1 / num2);  
        System.out.println(result);  
    }  
}
```

Answer

3

Status : Correct

Marks : 1/1

5. What will be the output of the following code?

```
import java.util.*;

class TernaryOperatorExample {
    public static void main(String[] args) {
        int a = 5, b = 10;
        int result = (a > b) ? a : b;
        System.out.println(result);
    }
}
```

Answer

10

Status : Correct

Marks : 1/1

6. What is the output of the following program?

```
class Demo {
    public static void main(String[] args) {
        String text = "Hello, World!";
        System.out.println(text);
    }
}
```

Answer

Hello, World!

Status : Correct

Marks : 1/1

7. What will be the output of the following code snippet?

```
import java.util.*;
```

```
class OperatorPrecedenceExample {  
    public static void main(String[] args) {  
        int a = 5, b = 3, c = 2;  
        int result = a + b * c;  
  
        System.out.println(result);  
    }  
}
```

Answer

11

Status : Correct

Marks : 1/1

8. Which of the following is not a primitive data type?

Answer

string

Status : Correct

Marks : 1/1

9. What is the output of the following program?

```
class Arithmetic {  
    public static void main(String[] args) {  
        char ch = 'A';  
        System.out.println(ch);  
    }  
}
```

Answer

A

Status : Correct

Marks : 1/1

10. What is the output of the following code?

```
class TestClass {
```

```
public static void main(String[] args) {  
    int a = 5;  
    int b = 10;  
  
    int sum = a + b;  
    int bitwiseAnd = a & b;  
    int bitwiseOr = a | b;  
  
    System.out.println(sum);  
    System.out.println(bitwiseAnd);  
    System.out.println(bitwiseOr);  
}
```

Answer

15015

Status : Correct

Marks : 1/1

11. Which of the following data types is used to store single characters?

Answer

char

Status : Correct

Marks : 1/1

12. What is the output of the following code?

```
class TestClass {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 3;  
        System.out.println(a / b);  
    }  
}
```

Answer

3

Status : Correct

Marks : 1/1

13. What will be the output of the following program?

```
class DataTypesMCQ {  
    public static void main(String[] args) {  
        int a = 10;  
        double b = 5;  
        System.out.println(a / b);  
    }  
}
```

Answer

2.0

Status : Correct

Marks : 1/1

14. What is the result of the following expression?

```
import java.util.*;
```

```
class ComplexExpressionExample {  
    public static void main(String[] args) {  
        int a = 5, b = 2, c = 3, d = 4;  
        int result = a + b * c / d - b;  
  
        System.out.println(result);  
    }  
}
```

Answer

4

Status : Correct

Marks : 1/1

15. What is the output of the following code?

```
class TestClass {
```

```
public static void main(String[] args) {  
    int x = 5;  
    int X = 10;  
  
    int sum = x + X;  
    int bitwiseResult = x | X;  
  
    System.out.println(sum);  
    System.out.println(bitwiseResult);  
}  
}
```

Answer

1515

Status : Correct

Marks : 1/1

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 1_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. PROBLEM STATEMENT:

Dave got two students who want help with their doubt. Each hands out an integer and wants to find if one integer is positive while the other is not divisible by 3. Write a program to achieve this and conclude for them.

Input Format

The first line of input represents the first integer.

The second line of input represents the second integer.

Output Format

The output should display as "One of the integers is positive while the other is not divisible by 3." or "Neither of the integers meets the condition."

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 4

3

Output: One of the integers is positive while the other is not divisible by 3.

Answer

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        int b = sc.nextInt();
        if ((a > 0 && b % 3 != 0) || (b > 0 && a % 3 != 0)) {
            System.out.println("One of the integers is positive while the other is not
divisible by 3.");
        } else {
            System.out.println("Neither of the integers meets the condition.");
        }
        sc.close();
    }
}
```

Status : Correct

Marks : 10/10

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 1_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Gloria is responsible for monitoring the performance of two machines in a factory. She needs to determine which of the two machines is operating closest to the optimal temperature of 100 degrees Celsius using the relational operator.

Assist Gloria in displaying the machine's temperature, which is closer to 100, and the difference from 100.

Input Format

The first line of input consists of an integer N, representing the temperature of the first machine.

The second line consists of an integer M, representing the temperature of the second machine.

Output Format

The output prints "The integer closer to 100 is X with a difference of Y" where X is the temperature of the closer machine and Y is the difference from 100.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 90

80

Output: The integer closer to 100 is 90 with a difference of 10

Answer

```
import java.util.Scanner;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int N = sc.nextInt();  
        int M = sc.nextInt();  
        int diffN = Math.abs(100 - N);  
        int diffM = Math.abs(100 - M);  
        if (diffN <= diffM) {  
            System.out.println("The integer closer to 100 is " + N + " with a difference  
of " + diffN);  
        } else {  
            System.out.println("The integer closer to 100 is " + M + " with a difference  
of " + diffM);  
        }  
        sc.close();  
    }  
}
```

Status : Correct

Marks : 10/10