

Day 13

std

Date: 22/01/25

# Ternary operator:

- If ternary operator is inside print statement then it can have different operands
- But if ternary operator is outside print statement then it is mandatory to have same type of operand.

Ternary operator with 3 variables:

$(a > b) ? (a > c ? a : c) : (b > c ? b : c)$

Q14) WAP to find greatest/larger number from three variables

```
→ class CondOperator
{
    public static void main (String args[]) {
        int a = 2;
        int b = 4;
        int c = 1;
```

```
        int lar = (a > b) ? (a > c ? a : c) : (b > c ? b : c);
```

```
        System.out.println("Largest Num : " + lar);
    }
}
```

}

Q15) WAP to find sum of digits

```
→ import java.util.Scanner;
class SumOfDigits
```

{

```
public static void main (String args[])
{
```

```
    System.out.print("Enter, Four Digits Number");
```

```
    int num = new Scanner(System.in).nextInt();
```

```
    int rem;
```

```
    int sumOfDigits = 0;
```

```
    int sumEven = 0;
```

```
    int sumOdd = 0;
```

```
    rem = num % 10;
```

```
    sumOfDigits = sumOfDigits + rem;
```

```
    num = num / 10;
```

```
    sumEven = sumEven + (rem % 2 == 0 ? rem : 0);
```

```
    sumOdd = sumOdd + (rem % 2 != 0 ? rem : 0);
```

```
    rem = num % 10;
```

```
    sumOfDigits += (rem % 2 != 0 ? rem : 0);
```

```
    sumOfOdd += (rem % 2 != 0 ? rem) : 0;
```

```
    num = num / 10;
```

```
    rem = num % 10;
```

```
    sumOfDigits += (rem % 2 == 0 ? rem : 0);
```

```
    sumOfDigits += rem;
```

```
    sumEven += (rem % 2 == 0 ? rem : 0);
```

```
    sumOdd += (rem % 2 != 0 ? rem : 0);
```

```
    num = num / 10;
```

```
    rem = num % 10;
```

```
    sumOfDigits += rem;
```

```
    sumEven = (rem % 2 == 0 ? rem : 0);
```

```
    sumOdd = (rem % 2 != 0 ? rem : 0);
```

```
    num = num / 10;
```

}

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