CONDITIONAL EXPRESSIONS (TERNARY OPERATOR)

zyBook 3.15,
Oracle - Java Tutorial: Equality, Relational, and Conditional Operators

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CONDITIONAL EXPRESSIONS (TERNARY OPERATOR)

- Shorthand for if-else.
    - result = someCondition ? value1 : value2;
    - "If someCondition is true, assign the value of value1 to result . Otherwise, assign the value of value2 to result ."

```java
import java.util.Scanner;

public class RaceResultsMedal {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.print("Enter place (int):
        int place = in.nextInt();
        if (place <= 3) {
            System.out.println("You earned"
                + " a medal!");
        } else {
            System.out.println("You did not"
                + " earn a medal.");
        }
    }
}
```

```
$ javac -d bin -cp bin
            src/RaceResultsMedal.java

$ java -cp bin RaceResultsMedal
Enter place (int): 1
You earned a medal!

$ java -cp bin RaceResultsMedal
Enter place (int): 3
You earned a medal!

$ java -cp bin RaceResultsMedal
Enter place (int): 10
You did not earn a medal.
```

```java
import java.util.Scanner;

public class RaceResultsMedalUpdated {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.print("Enter place (int):
        int place = in.nextInt();
        System.out.println((place <= 3) ?
                "You earned a medal!"
                : "You did not earn"
                + " a medal.");
    }
}
```

```
$ javac -d bin -cp bin
            src/RaceResultsMedalUpdated.java

$ java -cp bin RaceResultsMedalUpdated
Enter place (int): 1
You earned a medal!

$ java -cp bin RaceResultsMedalUpdated
Enter place (int): 3
You earned a medal!

$ java -cp bin RaceResultsMedalUpdated
Enter place (int): 10
You did not earn a medal.
```