C++ Basic Practice Questions (Variables & Output)

◆ Concepts Covered:

- `cout` output statements
- Declaring and initializing variables
- Basic data types (`int`, `float`, `char`, `string`, `double`, `bool`)
- Displaying variable values

1. Display a Simple Message

Write a C++ program that displays:

```
Welcome to C++ Programming!
```

2. Print Your Name

Create a program that declares a string variable `name` and displays:

```
My name is [Your Name].
```

3. Display Two Numbers

Declare two integer variables `a = 10` and `b = 20`, then print:

```
The value of a is 10 and b is 20.
```

4. Store and Display a Character

Declare a `char` variable with value `'A'` and display it as:

```
The grade is: A
```

5. Floating Point Example

Create a program that declares a `float` variable `temperature = 36.6` and prints:

```
The body temperature is 36.6°C
```

6. Combine Text and Numbers

Declare an integer variable `year = 2025` and display:

```
The current year is 2025
```

7. Calculate and Display Sum

Declare two integer variables `x = 15` and `y = 25`.
Calculate their sum and display:

```
Sum of x and y is 40
```

8. Display Multiple Data Types

Declare:

```
int age = 20;
string name = "Ali";
float marks = 89.5;
```

Display output as:

```
Student Name: Ali
Age: 20
Marks: 89.5
```

9. Area of Rectangle

Declare two variables:

```
int length = 5;
int width = 3;
```

Calculate and display:

```
Area of Rectangle = 15
```

10. Simple Double Example

Declare a `double` variable `pi = 3.14159` and print:

```
The value of pi is 3.14159
```

11. Boolean Example

Declare:

```
bool isRaining = false;
```

Display:

```
Is it raining? 0
```

Then modify program to show "Yes" or "No" instead of 1 or 0.

12. Swap Two Numbers (Without Logic Yet)

Declare two variables:

```
int a = 5, b = 10;
```

Just display:

```
Before swapping: a = 5, b = 10
After swapping: a = 10, b = 5
```

(You can assign swapped values manually — no logic required.)

13. Display User Info (Static Values)

Declare and display:

```
Name: Sara
Roll No: 23
Department: Computer Science
```

14. Simple Currency Example

Declare a float `price = 250.75` and print:

```
Total Price: Rs. 250.75
```

15. Display C++ Escape Sequences

Print this using a single `cout` statement:

```
C++ Output Practice:
\t1. Variables
\t2. Data Types
\t3. Output
```