Java Program: Are you above 18 years old?

```
package Class_objects;
import java.util.Scanner;
public class EligibleAge {
	public static void main(String[] args) {
		Scanner input = new Scanner(System.in);
		System.out.print("Please enter your age: ");
		int age = input.nextInt();
		if (age > 18) {
			System.out.println("You are eligible to vote.");
		} else {
			System.out.println("You are not eligible to vote yet.");
			}
		input.close();
	  }

	}
```

Output:

```
Please enter your age: 22
You are eligible to vote.
```

Java Program: Print Multiplication Table Using for Loop

```
package Class_objects;
import java.util.Scanner;
public class Multiplication_Table {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
				Scanner input = new Scanner(System.in);
				System.out.print("Enter a number to print its multiplication table: ");
				int number = input.nextInt();
				System.out.println("Multiplication table for " + number + ":");
				for (int i = 1; i <= 10; i++) {
			int result = number * i;
			System.out.println(number + " x " + i + " = " + result);
		}
				input.close();

	}
```

}

Output:

```
Enter a number to print its multiplication table: 7
Multiplication table for 7:
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
```

Java Program: Character, String, and Boolean Input Example

```
package BasicPrograms;
import java.util.Scanner;
public class UserInputSummary {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
			Scanner scanner = new Scanner(System.in);
			System.out.print("Enter a single character: ");
			char character = scanner.next().charAt(0);
			System.out.print("Enter your name: ");
			String name = scanner.next();
			System.out.print("Do you like programming? (true/false): ");
			boolean likesProgramming = scanner.nextBoolean();
			System.out.println("\n--- User Input Summary ---");
			System.out.println("Character entered: " + character);
			System.out.println("Name entered: " + name);
			System.out.println("Likes programming: " + likesProgramming);
			if (likesProgramming) {
			   System.out.println("Great! Keep coding, " + name + "!");
			} else {
			   System.out.println("No worries! Programming isn't for everyone.");
```

```
        }

        scanner.close();
    }
}
```

Output:

```
Enter a single character: A
Enter your name: Yaswanth
Do you like programming? (true/false): true
--- User Input Summary ---
Character entered: A
Name entered: Yaswanth
Likes programming: true
Great! Keep coding, Yaswanth!
```

Simple Banking Operations using switch Case

```
package Class_objects;
import java.util.Scanner;
public class SimpleBanking {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner scanner = new Scanner(System.in);
    int balance = 0;
    int choice;
    System.out.println("Welcome to ABC Bank");
    while (true) {
        System.out.println("\n1. Check Balance");
        System.out.println("2. Deposit Money");
        System.out.println("3. Withdraw Money");
        System.out.println("4. Exit");
        System.out.print("Enter your choice: ");
        choice = scanner.nextInt();
        switch (choice) {
            case 1:
                System.out.println("Your current balance is: ₹" + balance);
                break;
            case 2:
                System.out.print("Enter amount to deposit: ");
                int deposit = scanner.nextInt();
                if (deposit > 0) {
```

```
                balance += deposit;
                System.out.println("Deposit successful!");
            } else {
                System.out.println("Invalid deposit amount.");
            }
            break;
        case 3:
            System.out.print("Enter amount to withdraw: ");
            int withdraw = scanner.nextInt();
            if (withdraw > 0 && withdraw <= balance) {
                balance -= withdraw;
                System.out.println("Withdrawal successful!");
            } else if (withdraw > balance) {
                System.out.println("Insufficient balance.");
            } else {
                System.out.println("Invalid withdrawal amount.");
            }
            break;
        case 4:
            System.out.println("Thank you for using ABC Bank!");
            scanner.close();
            return;

        default:
            System.out.println("Invalid choice. Please try again.");
            }
    }
      }
}
```

Output:

```
Welcome to ABC Bank
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 2
Enter amount to deposit: 2000
Deposit successful!

1. Check Balance
```

2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 3
Enter amount to withdraw: 1000
Withdrawal successful!
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 1
Your current balance is: ₹1000
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 4
Thank you for using ABC Bank!

Task: Create a program that accepts age, height, and weight of a person and prints them with appropriate data types.

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class Primitve_Data {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scanner = new Scanner(System.in);
	System.out.print("Enter Age: ");
	int age = scanner.nextInt();
	System.out.print("Enter Height: ");
	float height = scanner.nextFloat();
	System.out.print("Enter Weight: ");
	double weight = scanner.nextDouble();
	System.out.println("\nAge: " + age);
	System.out.println("Height: " + height);
	System.out.println("Weight: " + weight);

	scanner.close();

	}
```

```
}
```
Output:
Enter Age: 22
Enter Height: 5.10
Enter Weight: 70
Age: 22
Height: 5.1
Weight: 70.0

Task: Declare and initialize different types of variables to store a student's information: ID, name, marks, and grade. Print them.

```
package Java_Day_2_Assignment;
public class StudentInfoVariables {
	public static void main(String[] args) {
		int id = 101;
	String name = "Arun";
	double marks = 89.5;
	char grade = 'A';
	System.out.println("Student ID: " + id);
	System.out.println("Name: " + name);
	System.out.println("Marks: " + marks);
	System.out.println("Grade: " + grade);

	}

}
```
Output:
Student ID: 101
Name: Arun
Marks: 89.5
Grade: A

Task: Accept two numbers and perform arithmetic, relational, and logical operations on them

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class OperatorsDemo {
	public static void main(String[] args) {
```

```
		Scanner sc = new Scanner(System.in);
	System.out.print("Enter number1: ");
	int num1 = sc.nextInt();
	System.out.print("Enter number2: ");
	int num2 = sc.nextInt();
	System.out.println("Addition: " + (num1 + num2));
	System.out.println("Greater number: " + (num1 > num2 ? num1 : num2));
	System.out.println("Are both positive? " + (num1 > 0 && num2 > 0));
	sc.close();

	  }

}
```

Output:

```
Enter number1: 100
Enter number2: 200
Addition: 300
Greater number: 200
Are both positive? True
```

Task: Create a greeting message using first name and last name entered by the user.

```
package Class_objects;
import java.util.Scanner;
public class WelcomeMsg {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
			Scanner sc = new Scanner(System.in);

			System.out.print("Enter First Name: ");
			String firstName = sc.nextLine();

			System.out.print("Enter Last Name: ");
			String lastName = sc.nextLine();

			String welcomeMessage = "Welcome " + firstName + " " +
lastName + "!";
			System.out.println(welcomeMessage);

			sc.close();
```

```
        }
}
```

Output:

```
Enter First Name: Kusam
Enter Last Name: Girish
Welcome Kusam Girish!
```

Task: Accept a sentence and reverse it using StringBuilder

```
package Class_objects;
import java.util.Scanner;
public class StringBuilderEx {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
			Scanner sc = new Scanner(System.in);
			System.out.print("Enter a sentence: ");
			String input = sc.nextLine();

			StringBuilder sb = new StringBuilder(input);
			System.out.println("Reversed: " + sb.reverse());

			sc.close();
		}
	}
```

Output:

```
Enter a sentence: Yaswanth
Reversed: htnawsaY
```

Task: Count how many times a specific character appears in a string.

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class CharacterCount {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
	System.out.print("Enter a string: ");
	String str = sc.next();
	System.out.print("Enter character to count: ");
	char ch = sc.next().charAt(0);
	long count = str.chars().filter(c -> c == ch).count();
	System.out.println("Character '" + ch + "' appears " + count + " times.");
	sc.close();
```

```
        }

}
```

Output:

```
Enter a string: Hello
Enter character to count: l
Character 'l' appears 2 times.
```

Task: Display the current date and format it as DD-MM-YYYY.

```
package Class_objects;
import java.text.SimpleDateFormat;
import java.util.Date;
public class CurrentDate {
        public static void main(String[] args) {
                        Date date = new Date();
                        SimpleDateFormat sdf = new SimpleDateFormat("dd-MM-
yyyy");
                        System.out.println("Current Date: " + sdf.format(date));
                    }
                }
```

Output:

```
Current Date: 24-07-2025
```

Task: Based on a number entered, print whether it's positive, negative, or zero.

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class NumberCheck {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
      System.out.print("Enter a number: ");
      int number = sc.nextInt();
      if (number > 0) System.out.println("The number is positive.");
      else if (number < 0) System.out.println("The number is negative.");
      else System.out.println("The number is zero.");
      sc.close();

        }
```

```
}
```
Output:

Enter a number: 100

The number is positive.

Task: Accept marks and display the grade using if-else.

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class GradeCalculator {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
	System.out.print("Enter marks: ");
	int marks = sc.nextInt();
	if (marks >= 90) System.out.println("Grade: A");
	else if (marks >= 75) System.out.println("Grade: B");
	else if (marks >= 60) System.out.println("Grade: C");
	else System.out.println("Grade: D");
	sc.close();

	}

}
```
Output:

Enter marks: 75

Grade: B

Task: Build a simple calculator using switch to perform operations (+, -, *, /).

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class SimpleCalculator {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
	System.out.print("Enter number1: ");
	double num1 = sc.nextDouble();
	System.out.print("Enter number2: ");
	double num2 = sc.nextDouble();
	System.out.print("Enter operation (+, -, *, /): ");
	char op = sc.next().charAt(0);
	switch (op) {
```

```
            case '+': System.out.println("Result: " + (num1 + num2)); break;
            case '-': System.out.println("Result: " + (num1 - num2)); break;
            case '*': System.out.println("Result: " + (num1 * num2)); break;
            case '/': System.out.println("Result: " + (num2 != 0 ? (num1 / num2) :
"Cannot divide by zero")); break;
            default: System.out.println("Invalid operation");
        }
        sc.close();

          }

}
```

Output:

```
Enter number1: 10
Enter number2: 20
Enter operation (+, -, *, /): *
Result: 200.0
```

Task: Print the first N even numbers using a loop

```
package Java_Day_2_Assignment;
import java.util.Scanner;
public class EvenNumbersLoop {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
        System.out.print("Enter N: ");
        int n = sc.nextInt();
        for (int i = 0; i < n * 2; i += 2) {
            System.out.print(i + " ");
        }
        sc.close();

          }

}
```

Output:

```
Enter N: 10
0 2 4 6 8 10 12 14 16 18
```

Task: Accept 5 numbers, store them in an array, and display their average.

```
package Java_Day_2_Assignment;
```

```
import java.util.Scanner;
public class ArrayAverage {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
       int[] arr = new int[5];
       int sum = 0;
       System.out.println("Enter 5 numbers:");
       for (int i = 0; i < 5; i++) {
          arr[i] = sc.nextInt();
          sum += arr[i];
       }
       System.out.println("Average: " + (sum / 5.0));
       sc.close();

         }

}
```

Output:

```
Enter 5 numbers:
10
20
30
40
50
Average: 30.0
```

Task: Create an enum for days of the week. Print a message depending on the day.

```
package Java_Day_2_Assignment;
enum Day {
   MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,
SATURDAY, SUNDAY
}
public class EnumDays {
        public static void main(String[] args) {
                Day today = Day.SUNDAY;
       switch (today) {
          case MONDAY: System.out.println("Start of the work week!"); break;
          case FRIDAY: System.out.println("Almost weekend!"); break;
```

```
            case SUNDAY: System.out.println("Rest day!"); break;
            default: System.out.println("Midweek day");
        }

          }

}
```

Output:

Rest day!