1.Java Program: Are you above 18 years old?

```
package day_2;

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: 21
You are eligible to vote.
```

2.Java Program: Print Multiplication Table Using for Loop

```
package day_2;
import java.util.Scanner;
public class MultiplicationTable {
 public static void main(String[] args) {
    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: 5
Multiplication table for 5:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```

3.Java Program: Character, String, and Boolean Input Example

```
package day_2;
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: s
Enter your name: das
Do you like programming? (true/false): true

--- User Input Summary ---
Character entered: s
Name entered: das
Likes programming: true
Great! Keep coding, das!

4.Simple Banking Operations using switch Case
package day_2;

import java.util.Scanner;

public class SimpleBanking {
 public static void main(String[] args) {

  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: 1
Your current balance is: ₹0
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 2
Enter amount to deposit: 200
Deposit successful!
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 2000
Invalid choice! Please try again.
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 3
Enter amount to withdraw: 200
Withdrawal successful!
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 3
Enter amount to withdraw: 5000
Insufficient balance!
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
```

Enter your choice:

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

```
package day_2;

      import java.util.Scanner;
      public class PrimitiveData {

      public static void main(String[] args) {

      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: 5.9
Enter Weight: 75

Age: 22
Height: 5.9
Weight: 75.0
```

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

```
package day_2;

public class StudentInfoVaria {
            public static void main(String[] args) {
            int id = 101;
            String name = "Das";
            double marks = 98.8;
            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: Das
Marks: 98.8
Grade: A
```

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

```
package day_2;
import java.util.Scanner;

public class Operators {
```

```
	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: 20
Enter number2: 10
Addition: 30
Greater number: 20
Are both positive? true
```

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

```
package day_2;
import java.util.Scanner;

public class Message {
	public static void main(String[] args) {

	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 = "Hello " + firstName + " " + lastName + "!";
	System.out.println(welcomeMessage);
	sc.close();
	}
	}
Output:
Enter First Name: Sivasundar
Enter Last Name: Das
Hello Sivasundar  Das!
```

9.Task: Accept a sentence and reverse it using StringBuilder

```
package day_2;
import java.util.Scanner;

public class StringBuilderExample {
	public static void main(String[] args) {

	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: Hello Namaskaram
Reversed: maraksamaN olleH
```

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

```
package day_2;
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: das
Enter character to count: s
Character 's' appears 1 times.
```

11.Task: Display the current date and format it as DD-MMYYYY.

```
package day_2;
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
```

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

```
package day_2;

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: 69
The number is positive.
```

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

```
package day_2;
import java.util.Scanner;

public class Grade {
	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: 69
Grade: C
```

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

```
package day_2;
import java.util.Scanner;

public class Arithmetic {
      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: 20
Enter number2: 10
Enter operation (+, -, *, /): +
Result: 30.0
```

15.Task: Print the first N even numbers using a loop

```
package day_2;
import java.util.Scanner;

public class EvenLoop {

      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
```

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

```
package day_2;
import java.util.Scanner;

public class Array_Ave {

	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:
2
4
5
6
7
Average: 4.8
```

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

```
package day_2;

	enum WeekDay {
	    MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,
	    SATURDAY, SUNDAY
	}
	public class EnumDay {

	    public static void main(String[] args) {
	        WeekDay today = WeekDay.SUNDAY;

	        switch (today) {
	            case MONDAY:
	                System.out.println("New week, new goals!");
	                break;
	            case FRIDAY:
	                System.out.println("Weekend is near!");
	                break;
	            case SUNDAY:
	                System.out.println("Time to relax and recharge.");
	                break;
	            default:
	                System.out.println("It's a regular weekday.");
	        }
	    }
	}
```

Output:

Time to relax and recharge.