

Assignment: Conditional Statement (nested-if-else statement)

1. Check Age and Citizenship for Voting

Description:

First check age ≥ 18 . Inside that, check citizenship.

Sample Input:

Age: 22

Citizen: yes

Sample Output:

You are eligible to vote.

```
import java.util.Scanner;
class VotingEligibility {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int age = sc.nextInt();
        String citizen = sc.next();

        if (age >= 18) {
            if (citizen.equals("yes")) {
                System.out.println("You are eligible to vote.");
            } else {
                System.out.println("You are not eligible to vote.");
            }
        } else {
            System.out.println("You are not eligible to vote.");
        }
    }
}
```

2. ATM Withdrawal Validation

Description:

Check amount multiple of 100 → then check balance.

Sample Input:

Withdrawal: 500

Balance: 400

Sample Output:

Insufficient balance.

```
class ATMWithdrawal {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int withdrawal = sc.nextInt();  
        int balance = sc.nextInt();  
  
        if (withdrawal % 100 == 0) {  
            if (withdrawal <= balance) {  
                System.out.println("Withdrawal successful.");  
            } else {  
                System.out.println("Insufficient balance.");  
            }  
        } else {  
            System.out.println("Invalid amount.");  
        }  
    }  
}
```

3. Online Exam Login

Description:

Check username → then password.

Sample Input:

Username: student

Password: 12345

Sample Output:

Login successful.

```
class OnlineExamLogin {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        String username = sc.next();  
        String password = sc.next();  
  
        if (username.equals("student")) {  
            if (password.equals("12345")) {  
                System.out.println("Login successful.");  
            } else {  
                System.out.println("Wrong password.");  
            }  
        } else {  
            System.out.println("Wrong username.");  
        }  
    }  
}
```

4. Check Weather Safety

Description:

Check raining → then umbrella availability.

Sample Input:

Raining: yes

Umbrella: no

Sample Output:

You cannot go outside.



```
class WeatherSafety {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        String raining = sc.next();
        String umbrella = sc.next();

        if (raining.equals("yes")) {
            if (umbrella.equals("yes")) {
                System.out.println("You can go outside.");
            } else {
                System.out.println("You cannot go outside.");
            }
        } else {
            System.out.println("You can go outside.");
        }
    }
}
```

5. Admission Eligibility

Description:

Check marks $\geq 60 \rightarrow$ then entrance exam ≥ 50 .

Sample Input:

Marks: 70

Exam Score: 45

Sample Output:

You are not eligible.

```
class AdmissionEligibility {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int marks = sc.nextInt();
        int exam = sc.nextInt();

        if (marks >= 60) {
            if (exam >= 50) {
                System.out.println("You are eligible.");
            } else {
                System.out.println("You are not eligible.");
            }
        } else {
            System.out.println("You are not eligible.");
        }
    }
}
```

6. Product Discount Check

Description:

Check price $\geq 1000 \rightarrow$ then coupon availability.

Sample Input:

Price: 1200

Coupon: yes

Sample Output:

Discount applied.

```
class ProductDiscount {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int price = sc.nextInt();  
        String coupon = sc.next();  
  
        if (price >= 1000) {  
            if (coupon.equals("yes")) {  
                System.out.println("Discount applied.");  
            } else {  
                System.out.println("No discount.");  
            }  
        } else {  
            System.out.println("No discount.");  
        }  
    }  
}
```

7. Delivery Availability

Description:

Check delivery area → then delivery boy availability.

Sample Input:

Area: yes

Delivery Boy: no

Sample Output:

Delivery not possible right now.

```
class DeliveryAvailability {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        String area = sc.next();
        String boy = sc.next();

        if (area.equals("yes")) {
            if (boy.equals("yes")) {
                System.out.println("Delivery possible.");
            } else {
                System.out.println("Delivery not possible right
now.");
            }
        } else {
            System.out.println("Delivery not available.");
        }
    }
}
```

8. Smartphone Unlock

Description:

Check PIN → then fingerprint.

Sample Input:

PIN: correct

Fingerprint: wrong

Sample Output:

Unlock failed.

```
class SmartphoneUnlock {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        String pin = sc.next();  
        String finger = sc.next();  
  
        if (pin.equals("correct")) {  
            if (finger.equals("correct")) {  
                System.out.println("Phone unlocked.");  
            } else {  
                System.out.println("Unlock failed.");  
            }  
        } else {  
            System.out.println("Unlock failed.");  
        }  
    }  
}
```

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