If else, if, else if

1. Program to Check Even or Odd Number

```
1    public class Main {
2        public static void main(String[] args) {
3            int number = 7;
4            if (number % 2 == 0) {
5                System.out.println(number + " is even.");
6            } else {
```

```java
7            System.out.println(number + " is odd.");
8        }
9    }
10 }
```

2. Program to Find Largest of Three Numbers

```java
1    public class Main {
2       public static void main(String[] args) {
3          int a = 5, b = 10, c = 3;
4          if (a >= b && a >= c) {
5             System.out.println(a + " is the largest number.");
6          } else if (b >= a && b >= c) {
7             System.out.println(b + " is the largest number.");
8          } else {
9             System.out.println(c + " is the largest number.");
10         }
11      }
12   }
```

3. Program to Grade a Student Based on Marks

```java
public class Main {
    public static void main(String[] args) {
        int marks = 85;
        if (marks >= 90) {
            System.out.println("Grade A");
        } else if (marks >= 80) {
            System.out.println("Grade B");
        } else if (marks >= 70) {
            System.out.println("Grade C");
        } else if (marks >= 60) {
            System.out.println("Grade D");
        } else {
            System.out.println("Grade F");
        }
    }
}
```

4. Program to Check Leap Year

```java
public class Main {
    public static void main(String[] args) {
        int year = 2024;
        if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
            System.out.println(year + " is a leap year.");
        } else {
            System.out.println(year + " is not a leap year.");
        }
    }
}
```

5. Program to Check Eligibility to Vote

```
1   public class Main {
2      public static void main(String[] args) {
3         int age = 18;
4         if (age >= 18) {
5             System.out.println("You are eligible to vote.");
6         } else {
7             System.out.println("You are not eligible to vote.");
8         }
9      }
10  }
```

Nested if else program:

```
1    public class Main {
2       public static void main(String[] args) {
3          int age = 25;
4
5          if (age < 18) {
6             if (age < 13) {
7                System.out.println("You are a child.");
8             } else {
9                System.out.println("You are a teenager.");
10            }
11         } else {
12            if (age < 60) {
13               System.out.println("You are an adult.");
14            } else {
15               System.out.println("You are a senior.");
16            }
17         }
18      }
19   }
```