**Example Programs:**

1. **package** program;

**public** **class** Example {

**public** **static** **void** main(String [] args){

**int** a=10;

**int** b=20;

**int** c=30;

**if**(a>b&&a>c)

{

System.***out***.println("a=" +a);

}

**else** **if**(b>c)

{

System.***out***.println("b=" +b);

}

**else**

{

System.***out***.println("c=" +c);

}

}}

**2. Print 100, 98, 96, ..., 0 using a for loop:**

**package** program;

**public** **class** Example {

**public** **static** **void** main(String [] args){

**for** (**int** i = 100; i >= 0; i -= 2) {

System.***out***.print(i + " ");

}

}

}

**3. Print -1, -2, -3, ..., -10 using a for loop:**

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**for** (**int** i = -1; i >= -10; i--) {

System.***out***.print(i + " ");

}

}

}

### 4. Print 100, 95, 90, 85 using a do-while loop:

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**int** i = 100;

**do** {

System.out.print(i + " ");

i -= 5;

} **while** (i >= 85);

}

}

**5. Print 1, 3, 6, 9, ... 30 using a for loop:**

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**int** sum = 0;

**for** (**int** i = 1; sum <= 30; i++) {

sum += i;

System.out.print(sum + " ");

}

}

}

**6. Java program to check if a number is odd or even:**

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.in);

System.out.print("Enter a number: ");

**int** number = scanner.nextInt();

**if** (number % 2 == 0) {

System.out.println(number + " is even.");

} **else** {

System.out.println(number + " is odd.");

}

}

}

**7. Java program that determines the Student grade based on the marks using if-else**

statements:

**public** **class** Student {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.in);

System.out.print("Enter your marks: ");

**int** marks = scanner.nextInt();

**if** (marks < 40) {

System.out.println("Fail");

} **else** **if** (marks >= 40 && marks < 50) {

System.out.println("D Grade");

} **else** **if** (marks >= 50 && marks < 60) {

System.out.println("C Grade");

} **else** **if** (marks >= 60 && marks < 70) {

System.out.println("B Grade");

} **else** **if** (marks >= 70 && marks <= 85) {

System.out.println("A Grade");

} **else** **if** (marks > 85) {

System.out.println("A+ Grade");

} **else** {

System.out.println("Invalid marks");

}

}

}

**8.**

**import** java.util.Scanner;

**public** **class** Find {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.in);

System.out.print("Enter a number: ");

**int** number = scanner.nextInt();

**switch** (number % 2) {

**case** 0:

System.out.println(number + " is even.");

**break**;

**case** 1:

System.out.println(number + " is odd.");

**break**;

**default**:

System.out.println("Invalid input.");

**break**;

}

}

}

**9.**

**package** program;

**public** **class** Example {

**public** **static** **void** main(String [] args){

**char** ch = 'h';

**if** (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {

System.***out***.println(ch + " is a vowel.");

} **else** {

System.***out***.println(ch + " is a consonant.");

}

}

}