**Java Decision Making**

1. **If statement**
2. **if else**
3. **else If**
4. **switch**
5. The basic syntax of **if** statement is:

Syntax:

if(test\_expression)

{

statement 1;

statement 2; ...

}

Example of a Java Program to Demonstrate If statements :

**public** class Sample

{

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

int a=20, b=30;

if(a>b)

System.out.println("a is greater");

}

}

1. The basic format of **if else** statement is:

Syntax:

if(test\_expression)

{

//execute your code

}

else

{

//execute your code

}

Example of a Java Program to Demonstrate **If else** statements

**public** class Sample

{

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

{

int a = 80, b = 30;

if (b > a)

{

System.out.println("b is greater");

}

else

{

System.out.println("a is greater");

}

}

}

1. The basic format of **else if** statement is:

Syntax:

if(test\_expression)

{

//execute your code

}

else if(test\_expression n)

{

//execute your code

}

else

{

//execute your code

}

Example of a Java Program to Demonstrate **else If** statements

**public** class Sample {

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

int a = 30, b = 30;

if (b > a)

{

System.out.println("b is greater");

}

else if(a >b){

System.out.println("a is greater");

}

else {

System.out.println("Both are equal");

}

}

}

1. The basic format of **switch** statement is:

Syntax:

**switch**(variable)

{

**case 1:**

//execute your code

**break;**

**case 2:**

//execute your code

**break;**

**default:**

//execute your code

**break;**

}

Example of a Java Program to Demonstrate **Switch** Statement

**public** class Sample {

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

int a = 5;

**switch** (a) {

**case 1:**

System.out.println("You chose One");

**break;**

**case 2:**

System.out.println("You chose Two");

**break;**

**case 3:**

System.out.println("You chose Three");

**break;**

**case 4:**

System.out.println("You chose Four");

**break;**

**case 5:**

System.out.println("You chose Five");

**break;**

**default:**

System.out.println("Invalid Choice. Enter a no between 1 and 5");

**break;**

}

}

}