

## **CONTROL STRUCTURES:**

- USED TO CONTROL FLOW OF THE PROGRAM.
- THERE ARE THREE TYPES OF CONTROL STRUCTURES.

I. CONDITIONAL CONTROL STRUCTURES

II. BRANCHING CONTROL STRUCTURES

III. ITERATION CONTROL STRUCTURES

### **I. CONDITIONAL CONTROL STRUCTURES:**

**I. SIMPLE IF:** IT CONTAINS ONLY TRUE BLOCK.

**SYNTAX:**

**IF <CONDITION> THEN**

**<EXEC-STATEMENTS>; -- TRUE BLOCK**

**END IF;**

**II. IF. ELSE:** IT CONTAINS BOTH TRUE BLOCK & FALSE BLOCK.

**SYNTAX:**

**IF <CONDITION> THEN**

**<EXEC-STATEMENTS>; -- TRUE BLOCK**

**ELSE**

**<EXEC-STATEMENTS>; -- FALSE BLOCK**

**END IF;**

### **III. NESTED IF:**

**-> IF WITHIN THE IF IS CALLED AS NESTED IF.**

**SYNTAX:**

**IF <CONDITION> THEN**

**IF <CONDITION> THEN**

**<EXEC-STATEMENT>;**

**ELSE**

**<EXEC-STATEMENTS>;**

**END IF;**

**ELSE**

```
IF <CONDITION> THEN
    <EXEC-STATEMENT>;
ELSE
    <EXEC-STATEMENTS>;
END IF;
END IF;
```

#### **IV. IF..ELSE LADER:**

**SYNTAX:**

```
IF <CONDITION> THEN
    <EXEC-STATEMENTS>;
ELSIF <CONDITION> THEN
    <EXEC-STATEMENTS>;
ELSIF <CONDITION> THEN
    <EXEC-STATEMENTS>;
.....

ELSE
    <EXEC-STATEMENTS>;
END IF;
```

#### **II. BRANCHING CONTROL STURCTURES:**

##### **I. CASE:**

**SYNTAX:**

```
CASE <VARIABLE/EXPRESSION>
    WHEN <COND> THEN
        <EXEC-STATEMENTS>;
    WHEN <COND> THEN
        <EXEC-STATEMENTS>;
    WHEN <COND> THEN
        <EXEC-STATEMENTS>;
```

**ELSE**

**<EXEC-STATEMENT>;**

**END CASE;**

## **ITERATION CONTROL STATEMENTS:**

### **I. SIMPLE LOOP:**

**-> IT IS AN INFINITE LOOP. IF WE WANT BREAK A SIMPLE LOOP THEN WE SHOULD USE "EXIT" STATEMENT.**

**SYNTAX:**

**LOOP**

**<EXEC-STATEMENTS>;**

**END LOOP;**

### **II. WHILE LOOP:**

**SYNTAX:**

**WHILE <CONDITION>**

**LOOP**

**<EXEC-STATEMENTS>;**

**<INCR/DECR>;**

**END LOOP;**

### **III. FOR LOOP:**

**-> BY DEFAULT, IT IS INCREMENTED BY 1.**

**SYNTAX:**

**FOR <INDEX\_VARIABLE> IN <START\_VALUE>..<END\_VALUE>**

**LOOP**

**<EXEC-STATEMENTS>;**

**END LOOP;**