



Module 4: Selective Constructs



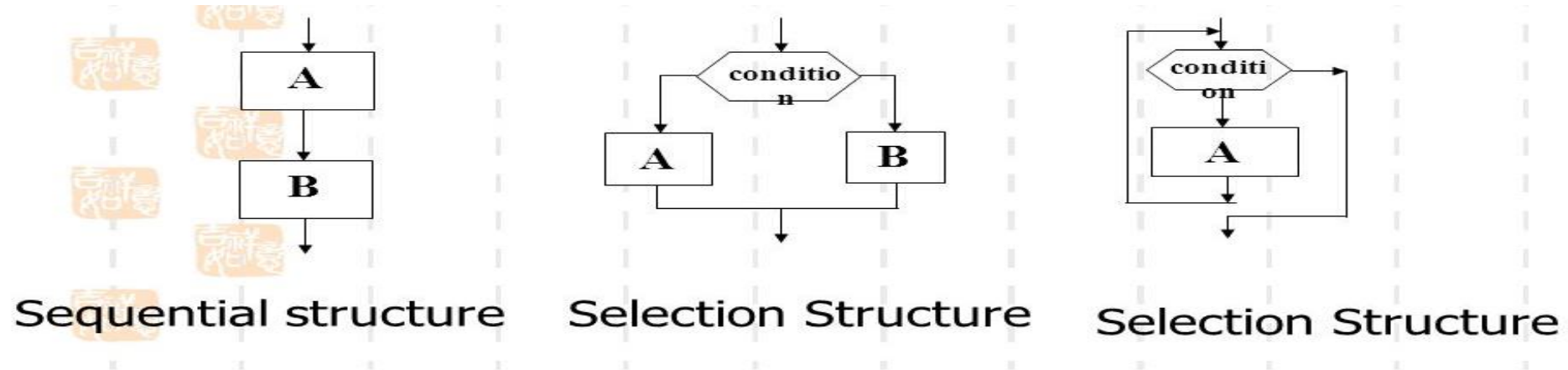
Programming Constructs:-

- These are the building blocks, used to create a program.
- Programming Constructs are of three types:-
 - Sequential Constructs
 - Selective Constructs
 - Iterative Constructs



Types of constructs

- Sequential Constructs:- When the set of statements are executed one after the other, they are called Sequential Constructs.
- Selective Constructs:- When the set of statements are executed depending upon certain conditions, it is called selective constructs. It's types are:-
 - Only If
 - If-else
 - Multiple If-Else
 - Nested if-else
 - Switch case



This is the picture showing the working of sequential structure and selection structure of a program.

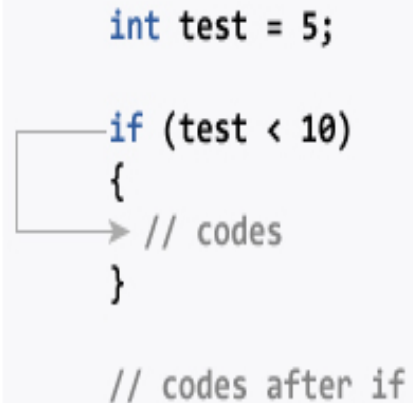
Only If Statement

Syntax:-

```
if (condition)
{
    block of
statements...
}
```

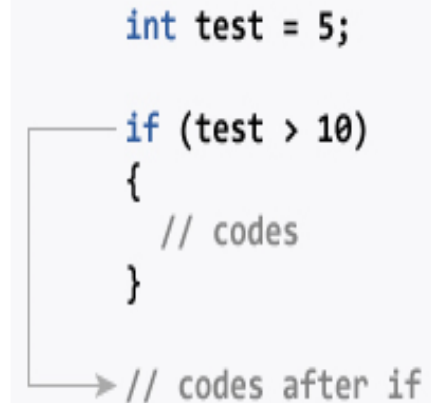
Working:-

Expression is true.



```
int test = 5;
if (test < 10)
{
    // codes
}
// codes after if
```

Expression is false.

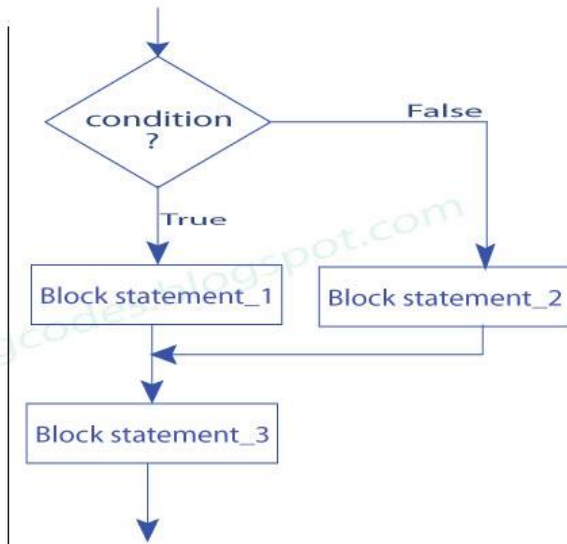


```
int test = 5;
if (test > 10)
{
    // codes
}
// codes after if
```

If-else Statement

Syntax And Working

```
if(condition)
{
    block statement_1
}
else
{
    block statement_2
}
block statement_3
```



Example

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

    int user = 17;

    if (user <= 18) {
        System.out.println("User is 18 or younger");
    }
    else {
        System.out.println("User is older than 18");
    }
}
```