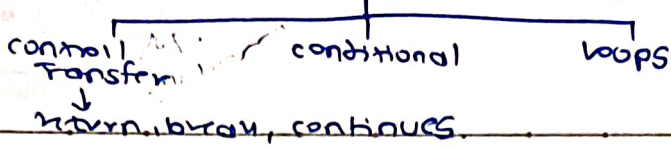


Day 19

Control Flow Statements



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Eg: \rightarrow

class	Example
1	

PSVM (String) corr?

```
System.out.println("exe starts");  
if (!false)
```

```
int a=10;
```

```
System.out.print("exends");
```

3

3 o/p: \rightarrow 1) Compile Time Error

Imp \rightarrow If we omit the braces "`{ }`" only one statement is considered as a part of if but that one statement can't be a variable declaration statement.

Because declaring the variable inside if makes it a local variable for if block. We cannot utilise this variable within the same block. That's why we get a compile time error.

Eg: \rightarrow `main()`
`{`

```
System.out.println("exe start");
```

```
int a = 10;
```

if (true)

3

$a = 20$;

```
System.out.println("if block");
```

3

```
System.out.print(c);  
System.out.print("\n");
```

3

loop: →
 ① exe start
 ② if blocky
 ③ 20
 ④ exe ends.

```

Eg: → main()
{
    int a;
    if (false)
    {
        a = 20;
    }
    cout << a;
}

```

O/P: → CTE

The above program creates CTE because variable `a` is not initialised & we are utilizing it.

② if else: →

It is a conditional statement which helps programmer in making decision, whether to ~~execute~~ execute a block or not based on condition.

We use if else, as if we want to execute something, no matter if the condition is true or false.

Syntax: →

```

keyword → if (condition)
{
    if block → Statements Executed if condition is true.
}
keyword → else
{

```

Boolean value (true/false)

3 // Statements if condⁿ is false.

Eg: class Ex
{

PSum (String Name)
{

if (true)

{

cout << "If block Executed";

}

else

{

cout << "else block";

}

}

}

• Execution Flow (Control Flow) of if else:→

① If the condition evaluates to true ~~on if~~ then if block is executed & else block is skipped or ignored.

② If the condition evaluates to false then if block is skipped & else block is executed.

③ It is not possible that if & else block executed simultaneously at the same time.

{ } → optional → except Switch ()
{
}

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In if else statement the block are optional and only one single statement is considered as a part of if and else statement.

We cannot declare any statement between if & else other than comments or else it will create compile time error.
ie else without if error.

Imp → `Math.random()` generates value from 0.0 to 1.0.
It returns in double.