



Day 3 – Java





Content:

Types of Conditional Statements (if,
if-else,if-else-if,nestedif)

Practical examples on Conditional Statements

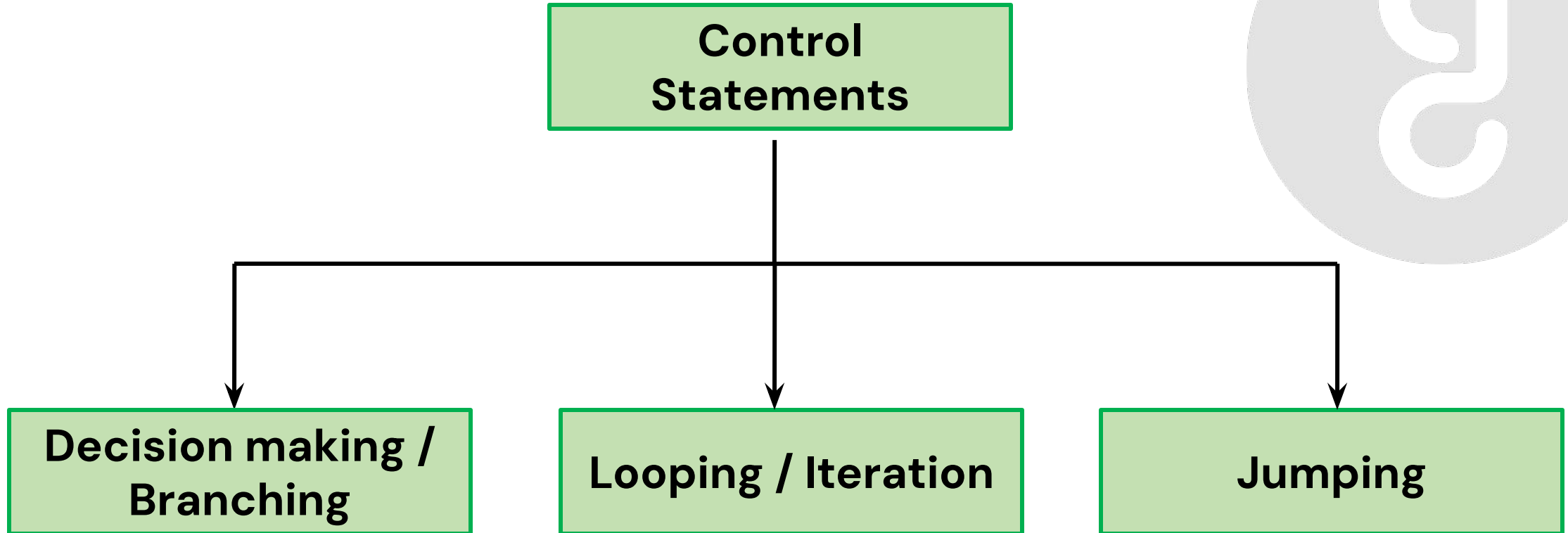
Switch Statement

Introduction of Loops

Types of Loops



Control Statements





Decision Making / Branching

Decision Making





Where we are using Decision Making?

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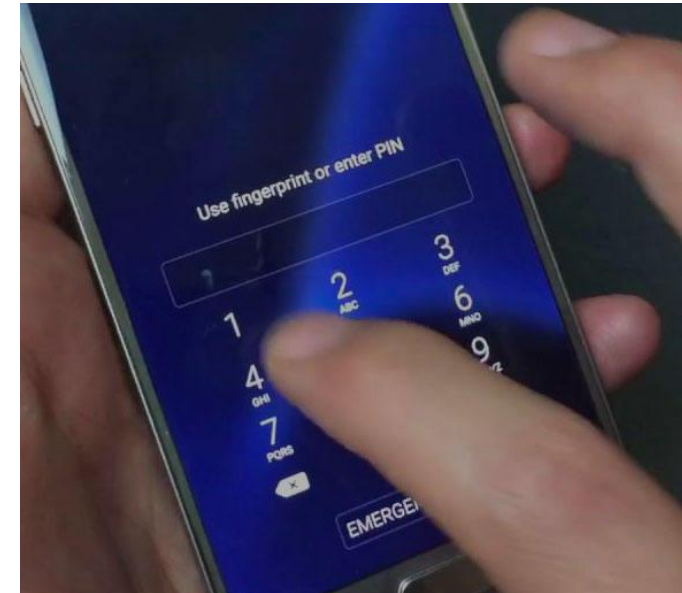
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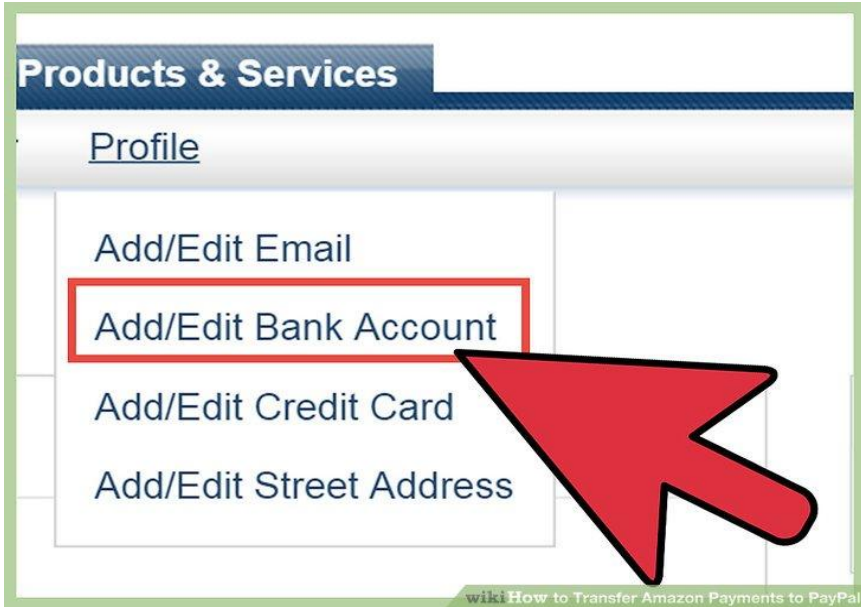
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Where we are using Decision Making





Contents:

Conditional Statements

Switch

Introduction to loops

Types of loops





Types

1. if – else
2. Cascaded(if else – if)
3. Nested if
4. Switch case





if – else statement

Syntax:

```
if(condition){  
    //code to be executed if condition is true  
}  
else{  
    //code to be executed if condition is false  
}
```





Cascaded(if else-if)

Syntax:

```
if(condition1)
{
    //code to be executed if condition1 is true
}
else if(condition2)
{
    //code to be executed if condition2 is true
}
else if(condition3){
    //code to be executed if condition3 is true
}
...
else{
    //code to be executed if all the conditions are false
}
```





Switch Case (Multiple Branching Statement)

Syntax:

```
switch(expression){  
    case 1:  
        //code to be executed;  
        break;  
    case 2:  
        //code to be executed;  
        break;  
    .....  
    default:  
        code to be executed if all cases are not matched;  
}
```





Looping / Iteration

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How will you write this in programming?



Looping / Iteration

```
Repeat If (Price >= 500 && Price <= 1000)
{
    Display the bag;
}
```

```
while(Price >= 500 && Price <= 1000)
{
    Display the bag;
}
```



Lets try to Write a program to Print 1 to N

Sample

Input:

10

Sample Output:

1 2 3 4 5 6 7 8 9 10





while Loop

Syntax:

```
while (condition)
{
    // Body of the loop
    Increment / decrement;
}
```





Code

```
import java.util.Scanner;

class Main{

    public static void main(String args[]){

        Scanner in = new Scanner(System.in);

        int N = in.nextInt();

        int number = 1;

        while(number <= N){

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

            number++;

        }

    }

}
```





Looping / Iteration

number = 1

Repeat If (number <= N)

{

 Print number

 number++

}

for(number = 1; number <= N; number++)

{

 Print number

}



for Loop

```
for(number = 1; number <= N ; number++)  
{  
    Print number  
}
```



Syntax:

1

2

4

```
for (Initialization / Declaration; Condition ; Increment / Decrement )  
{  
    // Body of the loop 3  
}
```



Code

```
import java.util.Scanner;

class Main{

    public static void main(String args[]){

        Scanner in = new Scanner(System.in);

        int N = in.nextInt();

        for(int number = 1; number <= N; number++){

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

        }

    }

}
```





do-while loop

Input: N

```
do{  
    count++  
    N = N / 10  
}while(N > 0)
```

Syntax:

```
do{  
    // Statement  
}while(condition);
```





Code

```
import java.util.Scanner;

class Main{

    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        int N = in.nextInt();
        int count = 0;
        do{
            count++;
            N = N / 10;
        }while(N > 0);
```





Code

```
        System.out.print(count);  
    }  
}
```





Thank You