Switch Case Statements

A control structure used to simplify the decision making when multiple options are there

switch(expression) { case value1: // code block Break; case value2: // Code block Break; // more cases default: //Default block of code

o/p:

Wednesday!

Explanation:

Day variable value is 3 and it matches with case 3, so Wednesday is printed.

The break prevents the execution of further cases

The default is optional but it executes when no other cases matches.

Looping Statements

It is used to execute a block of code repeatedly.

Types of loops:

- 1. for loop
- 2. while loop
- 3. do-while loop

• for loop:

- It is used when the number of iterations are known

SYNTAX:

```
for(initialization, condition, update) {
     //Code Block
}
```

Explanation:

```
Initialization: int i = 1;
```

Condition: $i \le 50$

Update: i++

* While loop

- It is used when the condition is checked before each iteration.

SYNTAX:

```
while(condition) {
    //Code block
```

- do-while loop
 - It gurantees the execution of the loop body at least once.

```
SYNTAX:
do {
   // code block
} while (condition);
```

```
public class DoWhileLoopExaple {
    public static void main(String[] args) {
        int i = 100;

        do {
            System.out.println("Count: "+ i);
            i++;
        } while(i<5);
        // 100<5 -> false -> wont execute the loop again
    }
}
```

0/P: 100

0/P:

Count: 1
Count: 2
Count: 3
Count: 4

Note:

- 1. Use for loops when number of iterations are known
- 2. Use while oops when the condition needs to be checked before the execution
- 3. Use do-while loops when we want the loop execute for at least once.
- 4. Use switch for multiple conditional branches.