**Day-20 Java Assignment**

**1. Problem Description:**

Difference between while loop and do while loop?

**2. My Solution:**

|  |  |
| --- | --- |
| **While Loop** | **Do-While Loop** |
| In ‘while’ loop condition is checked before the execution of the loop’s body. | In ‘do-while’ loop condition is checked after the execution of the loop’s body. It means the body of the loop is executed at least once, regardless of the condition’s initial evaluation. |
| If the condition evaluates to ‘true’, the loop’s body is executed. If the condition evaluates to ‘false’ initially, the loop’s body will not be executed at all. | After the first execution of the loop’s body, the condition is checked. If the condition evaluates true, the loop continues to execute. If the condition evaluates to false, the loop terminates. |
| while (condition) {  // body of the loop  } | do {  // body of the loop  } while (condition); |

**Example:**

**While Loop:**

**package** daily\_assesment;

**public** **class** WhileLoop {

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

**int** i = 1;

**while**(i <= 4) {

System.***out***.println("Hi" + i);

**int** j = 1;

**while**(j <= 3) {

System.***out***.println("Hello" + j);

j++;

}

i++;

}

}

}

**Output:**

Hi1

Hello1

Hello2

Hello3

Hi2

Hello1

Hello2

Hello3

Hi3

Hello1

Hello2

Hello3

Hi4

Hello1

Hello2

Hello3

**Do-While Loop:**

**package** daily\_assesment;

**public** **class** Do\_WhileLoop {

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

**int** i = 1;

**do** {

System.***out***.println("Hi" + i);

i++;

} **while**(i <= 4);

}

}

**Output:**

Hi1

Hi2

Hi3

Hi4