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# Loops Demo Results

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| **While Loop** |
| **int result = 1, number = 1;**  **while(number <= 5)**  **{**  **result = result + number;**  **number++;**  **}** |
| |  |  |  | | --- | --- | --- | | Iteration | result | number | | 0 | 1 | 1 | | 1 | 2 | 2 | | 2 | 4 | 3 | | 3 | 7 | 4 | | 4 | 11 | 5 | | 5 | 16 | 6 | |
| **Do While Loop** |
| **int result = 10, number = 1;**  **do**  **{**  **result = result - number;**  **number++;**  **} while(number < 4);** |
| |  |  |  | | --- | --- | --- | | Iteration | result | number | | 0 | 10 | 1 | | 1 | 9 | 2 | | 2 | 7 | 3 | | 3 | 4 | 4 | | 4 | - | - | | 5 | - | - | |
| **For Loop** |
| **int result = 1, number = 1;**  **for(int i = 0; i < number; i++)**  **{**  **result= result + number;**  **number++;**  **}** |
| |  |  |  | | --- | --- | --- | | Iteration | result | number | | 0 | 1 | 1 | | 1 | 2 | 2 | | 2 | 4 | 3 | | 3 | 7 | 4 | | 4 | 11 | 5 | | 5 | 16 | 6 | |
| **Selection Nested in Loop** |
| **int result = 1, number = 1;**  **while(number < 5)**  **{**  **if(result == number){**  **result= result + number;**  **number++;**  **}**  **}** |
| |  |  |  | | --- | --- | --- | | Iteration | result | number | | 0 | 1 | 1 | | 1 | 2 | 2 | | 2 | 4 | 3 | | 3 | - | - | | 4 | - | - | | 5 | - | - | |