## **Assignment: Javascript Conditions**

Q1. What are conditional statements? Explain conditional statements with syntax and examples.

Ans)

Conditional statements are used to perform different actions based on different conditions. They allow the program to make decisions and execute specific blocks of code accordingly.

Javascript code - link

## Q2. Write a program that grades students based on their marks.

- · If greater than 90 then A Grade
- If between 70 and 90 then a B grade
- If between 50 and 70 then a C grade
- Below 50 then an F grade

Ans) Javascript code - link

Q3. What are loops, and what do we need them? Explain different types of loops with their syntax and examples.

Ans)

Loops are used to execute a block of code multiple times, as long as a certain condition is true. They help avoid repeating code manually and are essential for tasks like iterating over arrays, repeating actions.

1. For Loop - Used when the number of iterations are known.

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2. While Loop - Used when the number of iterations are not known and the loop is required to run until a certain condition is false.

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**3.** <u>Do-while Loop</u> - Like while, but it executes at least once, even if the condition is false the first time.

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4. For-of Loop - Used to iterate over iterable objects like arrays or strings.

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5. **For-in Loop** - Used to iterate over the properties of an object.

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Q4. Generate numbers between any 2 given numbers.

Ex:

• const num1 = 10;

• const num2 = 25;

Output: 11, 12, 13, ...., 25

Ans) Javascript code - link

Q5. Use the while loop to print numbers from 1 to 25 in ascending and descending order.

Ans) Javascript code - link