

1. Differentiate between while loop and Do- while loop.

While loop	Do- while loop
1. Evaluates the condition first and then execute the statement.	1. Executes the statements before evaluating the condition.
2. The condition is specified at the beginning of the loop.	2. The condition isn't specified until after the body of the loop.
3. The body is executed only if a certain condition is met and it terminates when it is false.	3. The body is executed at least once, regardless of whether the condition is met.
4. No semi-colon is used as a part of syntax, while (condition).	4. Semi-colon is used as a part of syntax, while (condition).
5. It is a pre-test loop.	5. It is a post- test loop.

2. Differentiate between Break and Continue.

Break	Continue
1. Break statement is used to terminate the loop.	1. Continue statement is used to continue the next iterations in the loop.
2. It is used in loop and switch case.	2. It is used in loop only.
3. In break statement, control transfers outside the loop.	3. In continue statement control remains in the same loop.
4. Break stops the continuation of loop.	4. It only stops the current iteration.

3. Write a program to print largest of 3 numbers.

```
File Edit Selection View Go Run ...
JS forjs JS largestjs JS forinjs JS forofjs JS whilejs
EXPLORER
  LOOP
    breakjs
    continuejs
    dowhilejs
    forjs
    forinjs
    forofjs
    largestjs
    whilejs
  largestjs > ...
    2 var n2=30;
    3 var n3=20;
    4 if (n1>n3 && (n1>n2)) {
    5   console.log(`${n1} is the largest number`);
    6 }
    7 else{
    8   if (n3>n2) {
    9     console.log(`${n3} is the largest number`);
   10   } else{
   11     console.log(`${n2} is the largest number`);
   12   }
   13 }
   14 if (n3>n1 && (n3<n2)) {
   15   console.log(`${n3} is the second largest number`);
   16 }
   17 if (n1<n3 && (n1<n2)) {
   18   console.log(`${n1} is the third largest number`);
   19 }
   20
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\MIERN STACK\javascript\loop> node largest.js
30 is the largest number
20 is the second largest number
12 is the third largest number
PS D:\MIERN STACK\javascript\loop>
Type here to search
Ln 18, Col 55 Spaces: 4 UTF-8 CRLF JavaScript Go Live
Temps to drop 21:06 04-01-2024
```

4. Define an object with student names as properties and their marks as values.

```
File Edit Selection View Go Run ...
JS forjs JS largestjs JS taskjs JS forinjs JS forofjs JS whilejs
EXPLORER
  LOOP
    breakjs
    continuejs
    dowhilejs
    forjs
    forinjs
    forofjs
    largestjs
    taskjs
    whilejs
  taskjs > ...
    1 const student={
    2   Amal:78,
    3   Kiran:98,
    4   Rahul:87,
    5 }
    6
    7
    8
    9 for(key in student){
   10   console.log(`${key} : ${student[key]}`);
   11 }
   12
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\MIERN STACK\javascript\loop> node task.js
Amal : 78
Kiran : 98
Rahul : 87
PS D:\MIERN STACK\javascript\loop>
Type here to search
Ln 10, Col 27 Spaces: 4 UTF-8 CRLF JavaScript Go Live
24°C Mostly cloudy 21:42 04-01-2024
```