JavaScript Loops (Repeat a sequence of statements)

1. **Find how many times will 'Hello World' be printed in the following program?**

```
i)          let count = 10;
             while (count < 1){
                document.write('Hello World');
                }
```

```
ii)          let count = 10;
             while (count > 1){
                document.write('Hello World');
              }
```

```
iii)         let count = 10;
             while (count < 15){
             document.write('Hello World');
             count++;
              }
```

```
iv)          let count = 10;
             while (count <= 15){
                document.write('Hello World');
                 count++;
             }
```

```
v)          let count = 10;
             while (count < 15);
              {
                document.write('Hello World');
                count++;
              }
```

2. **Find how many times will 'Hello World' be printed in the following program?**

```
i)          let count = 10;
            do{
               document.write('Hello World');
               count++;
            }while(count < 1);
```

```
ii)          let count = 10;
            do{
               document.write('Hello World');
```

```
        count++;
      }while(count > 1);
```

iii)
```
let count = 1;
do{
  document.write('Hello World');
  count++;
 }while(count < 5);
```

iv)
```
let count = 10;
do{
 document.write('Hello World');
 count--;
  }while(count > 5);
```

3. Find how many times will 'Hello World' be printed in the following program?

i)
```
for(let i = 0; i <= 5; i++){
document.write("Hello World");
}
```

ii)
```
for(let i = 0; i >= 5; i++){
  document.write("Hello World");
  }
```

iii)
```
for(let i = 0; i <= 5;){
document.write("Hello World");
 }
```

iv)
```
for(let i = 0; i <= 5 ; document.write("Hello World")){
   i++;
 }
```

4. Find the infinite loop in the following programs and state the reason.

i)
```
let value = 5;
while(value){
document.write(value);
}
```

ii)   ```
        let value = 5;
        while(value > 3){
        document.write(value);
        }
        ```

iii)    ```
        let value = 3;
        while(value = 3){
        document.write(value);
        }
        ```

iv)   ```
        let value = 10;
        while(value == 10){
        document.write(value);
        }
        ```

v)      ```
        let value = 10;
        while(1){
        document.write(value);
        }
        ```

vi)   ```
        for(;;){
        document.write("Hello World");
        }
        ```

vii)    ```
        for(let i = 1; i = 5; i++){
        document.write("Hello World");
        }
        ```

viii)   ```
        for(let i = 1; i < 5;){
        document.write("Hello World");
        }
        ```