

## Assignment (14/7/2020)

**Question – 1 : Explore and explain the various methods in console function.**

**Solution -----**

1. log() : Gives output on the developers console.
2. warn() : Gives the warning message to the console.
3. error() : Gives the error message to the console.
4. table() : Displays the data declared in tabular form.
5. time () & timeEnd() : Keeps track of the execution of the program. (how long the program tooks time to execute).

**Question – 2 : Write the difference between var, let and const with code examples.**

**Solution -----**

----- *Code* -----

```
<script type="text/javascript">
```

```
const x=10;
var y=20;
let z=30;
// functional scope , block scope

if(true)
{
// block scope
console.log("block scope =>" , x);
console.log("var block scope =>" , y);
console.log("let block scope =>" , z);

//const x=100;
var b=200;
let c=300;
}
```

```
//console.log("After block scope =>" , x); // error
console.log("After block scope var =>" , b);
// console.log("After block scope let =>" , c);
```

```
function xyz(){
// functional scope or lexical scope
console.log("functional scope =>" , x);
console.log("var functional scope =>" , y);
console.log("let functional scope =>" , z);
```

```
x1=0.1
x2=0.2
let x3=0.3
```

```
}
```

```
xyz();
console.log("After Functional scope =>" , x1);
console.log("After Functional scope var =>" , x2);
console.log("After Functional scope let =>" , x3);
```

```
</script>
```

----- *Output* -----

block scope => 10

var block scope => 20

let block scope => 30

After block scope var => 200

functional scope => 10

var functional scope => 20

let functional scope => 30

After Functional scope => 0.1

After Functional scope var => 0.2

Uncaught ReferenceError: x3 is not defined at js.html:40

Explanation -----

1. Scope of *var* : var declarations are globally scoped or function scoped.
2. Scope of *let* : let declarations are local scoped or block scoped. They can be updated but not re-declared.
3. Scope of *const* : const declarations maintain constant values in block scoped. They cannot be updated or re-declared.

**Question – 2 : Write a brief intro on available data types in Javascript.**

**Solution -----**

1. var c;        *//c is undefined*
  2. var a = 10; *//Number*
  3. var b = “ Hi “;        *//String (series of characters)*
  4. var a = 10;  
    var b = 5;  
    (a == b)        *//Boolean (true or false)*
  5. var names = [“Jack” , “John” , “Jane”];        *//Arrays (similar data type elements and index starts with 0)*
  6. var city = { name : “Jack”, age : 20, city : “Mumbai” };        *//Object (name:value pair)*
- 
7. typeof c        *//returns the data type (refer 1- c is undefined)*
  8. var d = null;        *//value is null means nothing , type is object*