i*8

for (i=8; i<10;

___/___/___

#5 [Function ÷ 3: 16:00]

⇒ Write a programme print table for given numbers (8, 9, 12, 15) using for loop;

```
for (Var num = 1; num <=10; num++)
{
      Var tableOf = 8;
Console.log (tableOf + " * " +num +'' + tableOf * num);
```

output

```
8 * 1 = 8
8 * 2 = 16   (8 x 2)
=> 8*10 = 80
```

Function in JAVA Script

- Function Difinition
- Calling a Function
- Function Parameter
- Function Arguments
- Function Expression
- Return : Keywords
- Anonymous Function

Function Javascript

~~A function Java~~ is A block of code designed to perform a particular task.

_/_/_

★ ★☆ 1 ⇒ Function Difinition

- Before we use a function, wees need to define it.

- A function difinition (also called function declaration, or function statetement) consist of the function keyword, followed by:

  a) The name of functions.
  b) A list of parameters to the function, enclosed parathensesis and separated by commas.

- The javascript statetemet that define function, enclosed in curly brackets. {....}.

Syntax

keyword ↑ Name ↑

```
function functName ()
{
    //statement
}
```

~~Why fn~~

```
Var a=10;
Var b=20;
Var Sum = a+b;
Console.log (sum)
```

Funct

incomplete

```
function Sum (){
 Var a=10, b=20;
   Var total = a+b;
}  Console.log (total);
```

30 undefine

```
Sum();
or
Console.log (sum());
```

Why function?
Because, this programme many time used easily

Function is called reusable

__/__/__

2. <u>Calling function</u> (use & call)

- Defining a function does not execute it.
- A java Script function is excuted when <u>call function</u>

```
function sum() {
        var  a = 10,  b = 10;
        var  total = a + b;            } Execution
         console.log (total);
}

Complet

sum();                                 } call
```

3. Function Parameter Vs Function Arguments

<u>Why parameters</u>

because, the function ~~calling~~ man time ~~value~~ use same result.

<u>Function Parameter</u>

Function parameter are <u>name</u> <u>listed</u> in the function definition.

<u>Function Arguments</u>

Function calling time the value passed to the function.

Parameter

```
function sum (a, b) {

    var total = a+b;
    console.log (total);
}

sum ();          => NaN
sum (20, 30)     => 50
sum (50, 30)     => 80
```

Argument

★★★ Why function?

- You can reuse code.— Define the code once, and use many times.
- You can use the same code many times with different arguments, to produce different values.

OR

A function of group of reusable code which can be called anywhere in programme. This eliminates the need of writing the same code again & again.

DRY ⇒ Do Not Repeat Yours Self.

4. Function Expression

Function expression simply means Create a function and put into the variable.

incomplet

```
function sum(a,b) {
    var total = a+b;
    console.log (total);
}
var funct EXp = sum (5,10);
```

5. Return Keyword

- ~~la~~ Reach a return statement, the function will stop executing.
- The return value is "returned" back to the "caller".

Programme

Complete

```
function sum (a, b) {
    return total = a+b;
}
var funcExp = sum (5, 25);
console.log ('sum of two no is' + funExp);
```

Complete

6. Anonymous Function

A function expression is similar to and has the same syntax as a function declaration One can " defined

6. Anonymous function

A function expression is similar to and has the same syntax as a function declaration One can defined "named" function expression (Where nam the of the expression might be used in the call stack of example)

Or

"anonymous" function expression

Programme

```
Var funcExp = function (a,b){        } Anonymous
        return total = a+b;          } functio
}
        Var sum= funExp (15, 15);
Console.log(' The sum of number '+sum);
```