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Functions and expression:

Function declaration:

```
function whatDoWeDo(job, firstName) {}
```

Function Expression:

```
var abcd = function whatDoWeDo(job, firstName){ }
```

Example :

```
var abcd =function whatDoWeDo(job, firstName)
{
        Switch(job)
        {
                case 'teacher':
                        return firstName + " is a teacher and teach the coding!";
                case 'doctor':
                        return firstName+ " is a doctor and give a treatments!";
                default:
                        return firstName+ " is nothing!";
        }
}
console.log(whatDoWeDo("teacher","mayur"));
console.log(whatDoWeDo("doctor","mike"));
console.log(whatDoWeDo("driver","john"));
```

If – Else Statement :

Example :

```
var firstName  = "john";

var civilStatus = "single";

if(civilStatus === "married")

{

        console.log(firstName + "is married");

}

else

{

        console.log(firstName+ "is not married");

}

var isMarried = false;

if(isMarried)

{

        console.log(firstName + "is married");

}

else

{

        console.log(firstName+ "is not married");

}
```

Boolean Logic :

Basic Boolean Logic :

AND (&&) : TRUE if ALL are TRUE

OR(||) : TRUE is ONE are TRUE

NOT(!) : inverst true/false value

Example :

```
var firstName  = "mayur";

var age  = 22;

if(age < 13)

{

        console.log(firstName + 'is a boy');

}

else if (age >=13 && age <20) { console.log(firstName  + 'is a teenager');

else if (age >=20 && age <30) { console.log(firstName  + 'is a young man');

else{ console.log(firstName  + 'is a man');
```

Function :

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

It is used a 'function' statement.

```
function myFunction(p1, p2) {
  return p1 * p2;   // The function returns the product of p1 and p2
}
```

Arrays :

Push() : Used to push an element in array at last.

Unshift() :Used to push an element in array at beginning of the block.

Pop() : Used to delete the last element from array.

Shift() : Used to delete elements from beginning in array.

indexOf() : In which position your element is..!

Example :

```
var name = ['mayur','akshay','anjali'];

var years = new Array(1999,1999,1998);

console.log(name[0]);

console.log(name.length());

name[1] = 'vanshika';

console.log(name[1]);

name[5] = 'pooja';

console.log(name[5]);

name.push('abcd');

name.pop();

name.unshift('mr.');

name.shift();
```

Ternary Operator :

? is a ternary operator which checks the condition and then give the result. The : is used in ternary operator for else part. When is is not fulfilled then it goes after : part.

Example :

var firstName = "mayur";

var age = 22;

age > 18 ? console.log(firstName + ' drinks beer') : console.log(firstName + ' drinks juice');

OR

var drink = age > 18 ? 'beer' : 'juice';

console.write(drink);

Switch Case :

Example is shown above in function declaration part..!

Truthy ad falsy values :

Falsy : NAN,null, 0 ,'', undefined

Truthy : Not falsy value

Example :

```
var height;

height = '';

if(height || height === 0)

{

        Console.log('variable is definned');

}

else

{

        console.log('variable has not been defined');

}

///Equality operator

If(height === "23")

{

        Console.log('The == operator does type correction!');

}
```