// string indexing

--> It will print the 3rd index of variable.

```
let stringIndexing ="Harshit";
console.log(stringIndexing[3])
```

// Trim

--> Trim means, It removes the white spaces of variable from beginning and end

```
var trimVar = " This Is A String      ";
console.log(trimVar.length)
var tt= trimVar.trim()
console.log(tt.length)
```

// Slice

```
-->Slice is used to cut letters in the veariable from starting.
let sliceVar ="Hi My Name is Angela";
let sliced=sliceVar.slice(2)
console.log(sliced)
```

// Convert number to string

```
let conNumber =1029;
let convertedNumber = "" + conNumber;
console.log(typeof convertedNumber)
```

-->Method2

```
console.log(conNumber.toString())
```

// Convert String to Number

```
let stringtoNumber = "29839";
```

```
let convertedString = +stringtoNumber;
console.log(typeof convertedString)
```

// String Concatination

--> String Concatination means to write different string in same line from different varaibles. We can Concatinate by using "+"

```
let firstName= "Angela";
let secondName= "Yu";
console.log("My name is ", firstName+" ", secondName)
```

// Template Stirng

--> Basically It means by using dollar sign to

```
let name = "Angela";
let age= 23;
console.log(`My name is ${name} and I'm ${age} old`)
```

// OPERATOR

```
// Assignment        =, +=, -=, *=, /=, **=
// Arithmmetic       +, -, *, /, %, ++, --, **
// Comparison        =, !=, >=, <=, >, <,
// Logical           &&, ||, !
// Bitwise           &, |, ^, ~, <<, >>, >>>
// Other             , (Comma), ?!(return value based on condition)
// Type Operator   typeof, instance of
// Ternary Operator ?
```

// Ternary operator Example

```
let age2= 8;
let drink =age2 >=5?  "Coffee":"Milk";
console.log(drink)
```

== Operator

== operator only checks value not data types

=== Operator

=== Operator checks both value and data types

|| Operator

OR Operator checks only one condition to run

&& Operator

AND Operator checks both condition to run

Loops

While loop

```
let i=0;
while(i<=9){
        console.log(`Value of${i}`)
        i++;
}
```

do while loop

```
let j=0;
do{
        console.log(`Value of ${j}`)
        j++;
}
while(j<=9)
```

for loop

```
for(k=0; k<=9; k++){
```

```
        console.log(`The value of k ${k}`)
}
```

Switch Statement

```
let day =2;
switch (day) {
        case 1:
                console.log("Sunday")
                break;
        case 2:
                console.log("Monday")
                break;
        case 3:
                console.log("Tuesday")
                break;
        default:
                // statements_def
                break;
}
```

Array

```
let array1 =[`Item1`, `Item2`, `Item3`]
```

To Change Item inside Array

```
array1[0]="Added Item"
```

To Check Array is Array or not

```
Array.isArray(array1)
```

Push

Array push is used to add an Item in the last

```
array1.push("Added")
```

Array Pop

Array pop is used to remove last Item.

array1.pop()

Unshift

Unshift is used to add an Item in array in first Index

array1.unshift("by Unshift")

shift()

Shift is used to remove last item from array.

array1.shift()

To clone Array

let clonedArray=[...array1]

method 2

let clonedArray2= [].concat (array1)

method 3

let clonedArray3 =array1.slice(0)

console.log(clonedArray3)

Object

to create Object

```
let person ={
        Name: "Zayn",
        age:18,
        Sex:"Male",
        "His Hobbies":["Coding", "Singing"]
```

```
}
console.log(`Name is ${person.Name} and Age is ${person.age} and Hobbies is
${person['His Hobbies']}`)
```

Access Key / Properties value of Array

```
console.log(person["Name"])   -->Using Bracket Notation
```

---Name is Key or Properties and the value inside Name is Key Value---

Add Key Value and Properties in Object

```
person.favColor="white"
```

// --->favColor properties will be added in Object Person

Using Bracket Notation

```
person["number"]=9898;
```

How to Iterate Object

```
for (let key in person){
        console.log(key)
}
```

--> It will only print the properties

Printing Value of Object Using Iterate

```
for (let key2 in person ){
        console.log(person[key2])
}
```

Printing Properties and Value using Iterate

```
for (let key3 in person){
        console.log(`${key3} ${person[key3]}`)
}
```

Spread Operator in Object

```
const obj1={
        key1:"Value1",
        key2:"Value2"
}

const obj2={
        key3:"Value3",
        key4:"Value4"
}

const newObj = {...obj1, ...obj2}
```

Program to print index number of object item and object

```
const obj3 ={..."abcd"}
console.log(obj3)
```

Object Destructing

```
let objDest ={
        bandName:"Dj Snake",
        famousSong: "Let me love you",
        Year:2012
}
const {bandName, famousSong}=objDest;
console.log(bandName)
```

Object destructing by Making other variable

```
const band={
        bandName:"Dj Khaled",
        famousSong:"I am the one",
        Year:2012,
```

```
}
const {bandName:nameOfBand, Year:date}= band;


const band3 ={
        bandName1:"Alan Walker",
        famousSong1:"Alone",
        Year1:2010,
        Released:"May",
}

const {bandName1, famousSong1, ...otherAll}=band3;
// --> bandName1 and famousSong1 is variable and otherAll is object
```

Object Inside Array

```
let objInsideArray =[
{userId:1, Name:"David", Age:22},
{userId:2, Name:"Davidson", Age:20}

]
```

Iterate Object which is inside Array

```
for (let users of objInsideArray){
        console.log(users)
}
```