**ASSIGNMENT-1**

**Index.html**

**<html>**

**<head>**

**<script type="text/javascript" src="tutorial.js">**

**</script>**

**</head>**

**</html>**

**tutorial.js**

**1)Constants**

const PI=3.14;

const obj1={

name:PI

};

console.log(obj1.name);

**Output**:

3.14

**2)Scoping**

function greetPerson(value: number)

{

if(value===1)

{

var greet= true;

}

else

{

var greet=false;

}

console.log(greet);

}

greetPerson(1);

**Output:**

True

**4)Arrow Function**

const arr= ['tom','ivan','jerry'];

console.log("name: " +arr+ ", length: "+arr.map((arr1)=>arr1.length));

**Output:**

name: tom,ivan,jerry; length: 3,4,5

**5)Extended parameter handling**

**b)**

var userFreinds=function(username: any, ...names: string[])

{

console.log("Username is: " +username);

console.log("User Friends: " +names)

for(let i in names){

console.log(names[i]);

}

}

var username="John";

var capitalNames=['tom','jerry','ivan','paul'];

userFreinds(username, ...capitalNames);

**Output:**

Username is: John

User Friends: tom,jerry,ivan,paul

**5)c)**

var printCapitalNames=function(names: string[])

{

console.log(names)

for(let i in names){

console.log(names[i].toLocaleUpperCase());

}

}

var capitalNames=['tom','jerry','ivan'];

printCapitalNames(...capitalNames);

Output:

["tom", "jerry", "ivan"]

TOM

JERRY

IVAN

**6)Template literals**

var laptop='MacBookAir';

var yourdeskno='015H51517';

var myname='Nikitha';

console.log(`problem with my laptop including

details:

${laptop},

${yourdeskno},

${myname}`);

**Output:**

problem with my laptop including details:

MacBookAir,

015H51517,

Nikitha

**7)Destructuring Array**

**a)**

var employee=["Chandler", "Bing", "Male", "Capgemini"];

var [fname, lname, gender,companyname]=employee;

console.log(gender);

**Output**:

Male

**ASSIGNMENT-3**

**Promises:**

**const a = 10;**

**const b = 20;**

**var sum=a+b;**

**Promise.all([sum]).then((values) => {**

**console.log(values);**

**});**

**Output:**

[30]