

PROGRAM 3: Aim:Write node.js program to create, access, modify Arrays.

```
console.log("This is Experiment 3 we will discuss about creating, accessing, modifying arrays");
console.log("functions like index, indexOf, lastIndexOf, push, pop, shift, unshift, sort, reverse, concat");
```

```
//Creating arrays
```

```
var animals=['tiger','lion','elephant']
var pets=['dog','cat','hen','goat']
var birds=['kingfisher','pigeon','parrot']
console.log("\nAnimals are : ",animals,"\nPets are : ", pets,"\nBirds are : ", birds);
```

```
console.log("\nAccessing arrays");
console.log("\nindex() function:\n");
```

```
console.log(animals[1],"is the King of forest");
console.log(pets[0],"is very honest");
console.log(birds[0],"is very colourful");
```

```
console.log("\nindexOf() function\n");
```

```
console.log(animals.indexOf('tiger'));
console.log(pets.indexOf('cat'));
console.log(birds.indexOf('parrot'));
```

```
console.log("\nlastIndexOf() function\n");
```

```
console.log(animals.lastIndexOf('tiger'));
console.log(pets.lastIndexOf('cat'));
console.log(birds.lastIndexOf('parrot'));
```

```
console.log("\nPush function\n");
```

```
animals.push('snake','zebra');
pets.push('cow','monkey');
birds.push('sparrow','owl');
console.log("\nAnimals are : ",animals,"\nPets are : ", pets,"\nBirds are : ", birds);
```

```
console.log("\nPop function\n");
```

```
animals.pop()
pets.pop()
birds.pop()
console.log("\nAnimals are : ",animals,"\nPets are : ", pets,"\nBirds are : ", birds);
```

```
console.log("\nUnshift function\n");
```

```
animals.unshift('zebra');
pets.unshift('monkey');
birds.unshift('owl');
console.log("\nAnimals are : ",animals,"\nPets are : ", pets,"\nBirds are : ", birds);
```

```
console.log("\nShift function\n");
```

```
animals.shift()
pets.shift()
birds.shift()
console.log("\nAnimals are : ", animals, "\nPets are : ", pets, "\nBirds are : ", birds);

console.log("\nSorting function\n");

console.log("Before Sorting: ")
console.log("\nAnimals are : ", animals, "\nPets are : ", pets, "\nBirds are : ", birds);
console.log("After Sorting: ")
console.log("\nAnimals are : ", animals.sort(), "\nPets are : ", pets.sort(), "\nBirds are : ",
birds.sort());

console.log("\nReverse function\n");

console.log("Before Sorting: ")
console.log("\nAnimals are : ", animals, "\nPets are : ", pets, "\nBirds are : ", birds);
console.log("After Sorting: ")
console.log("\nAnimals are : ", animals.reverse(), "\nPets are : ", pets.reverse(), "\nBirds are : ",
birds.reverse());

console.log("\nConcat function\n");

console.log("\nAnimals are : ", animals, "\nPets are : ", pets, "\nBirds are : ", birds);
console.log(animals.concat(pets, birds));

console.log("\nForEach function\n");

animals.forEach(function(i){
    console.log(i);
})
```