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','pegion','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);

})