### Instructions:

Complete all questions in the spaces provided (the number of lines provided does not indicate the length of the code required). This quiz is worth 5% of your final mark and you will have exactly 30 minutes to complete it.

### Question 1 (3 Marks):

Write a function called "allCapsArray" using function declaration syntax that takes one parameter (an array of Strings). Your function will return a copy of this array with all of the elements capitalized.

#### **Example Usage / Output:**

var allCaps = allCapsArray(["jon","bob","andrew"]); // returns a new array consisting of: ["JON","BOB","ANDREW"]

HINTS: Make use of the Array.length property and the Array.push(newItem) and String.toUpperCase() methods

```
function allCapsArray(strArray){
  var newArray = [];

  for(var i=0; i < strArray.length; i++){
    var newStr = strArray[i].toUpperCase();
    newArray.push(newStr);
  }

  return newArray;
}</pre>
```

# Question 2 (4 Marks):

Write a JavaScript function called "capitalize" using function declaration syntax that takes one parameter (a string) and returns a copy of the string where the first letter is upper case and all other letters are lower case.

#### **Example Usage / Output:**

```
var capitalize1 = capitalize("PATRICK"); // returns "Patrick"
var capitalize2 = capitalize("james"); // returns "James";
```

HINTS: Make use of the String.length property and the String.charAt(index), String.toUpperCase(), String.toLowerCase() and String.substr(fromIndex,[length]) methods

```
function capitalize(str){
  var firstChar = str.charAt(0);
  firstChar = firstChar.toUpperCase();

  var remainingString = str.substr(1);
  remainingString = remainingString.toLowerCase();

  return firstChar + remainingString;
}
```

# Question 3 (3 Marks):

Create a custom object called "car" using object literal notation. The car object has 3 properties:

```
speed ( number ) - initialized to 0speedUp ( function ) - takes one parameter (number) and adds this number to the speed propertyslowDown ( function ) - takes one parameter (number) and subtracts this number from the speed property
```

### **Example Usage / Output:**

```
console.log(car.speed); // outputs 0;
car.speedUp(5);
console.log(car.speed); // outputs 5;
car.slowDown(3);
console.log(car.speed); // outputs 2;

var car = {
   speed: 0,
   speedUp: function(val){ this.speed += val},
   slowDown: function(val){ this.speed -= val}
};
```

# Question 4 (4 Marks):

Create an custom object called "student" using object literal notation. The student object has two properties:

```
name (string) - initialized to your name (ie: "Pat")
studentNum (number) - initialized to your student number (ie: 657483920)r
```

Next, create a **new object** called "**detailedStudent**" using the "**student**" object as a **prototype** and add the property:

```
program (string) - initialized to your program, (ie: "CPA")
```

#### **Example Output:**

console.log("Student: " + detailedStudent.name + " Number: " + detailedStudent.studentNum + " Program: " + detailedStudent.program); // Outputs: Student: Pat Number: 657483920 Program: CPA

```
var student = {
  name: "Pat",
   studentNum: 657483920
};

var detailedStudent = Object.create(student);
detailedStudent.program = "CPA";
```