Introduction to JavaScript February 12, 2019

Question 1:

Prompt for amount, interest rate, and number of years, and calculate simple interest

Code: https://github.com/Deee92/bootcamp assignments/tree/master/js exercise one

```
index.html
Open ▼
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<!doctype html>
<html>
<head>
 <meta charset="utf-8">
 <title>JS Exercise One</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
<div class="main">
 <h1>Simple Interest</h1>
 <hr/>
 Principal
   Rate of Interest
   Time
   Simple Interest
   </div>
<script src="app.js"></script>
</body>
</html>
```

```
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var amount;
var rateOfInterest;
var time;
// Amount should be a positive number
while (isNaN(amount) || amount < 0 || amount == null) {
   amount = prompt("Principal amount (Rupees)");</pre>
document.getElementById("amount").innerHTML = "Rs " + amount;
// Rate of interest should be a positive number
while (isNaN(rateOfInterest) || rateOfInterest < 0 || rateOfInterest == null) {
    rateOfInterest = prompt("Rate of interest (%)");</pre>
document.getElementById("rate-of-interest").innerHTML = rateOfInterest + "%";
// Time should be a positive number
while (isNaN(time) || time < 0 || time == null) {
   time = prompt("Time (years)");</pre>
}
document.getElementById("time").innerHTML = time + " year(s)";
calcInterest(amount, rateOfInterest, time);
document.getElementById("simple-interest").innerHTML = "Rs " + calcInterest();
function calcInterest() {
    var interest = (amount * rateOfInterest * time) / 100;
    return interest;
}
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```

Simple Interest

Principal Rs 2000

Rate of Interest 5%

Time 3 year(s)

Simple Interest Rs 300

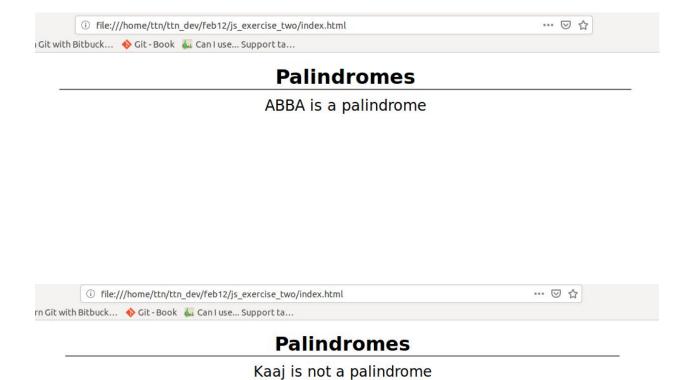
Question 2:

Find out if a string is a palindrome

Code: https://github.com/Deee92/bootcamp_assignments/tree/master/js_exercise_two

```
index.html
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<!doctype html>
<html>
<head>
  <meta charset="utf-8">
  <title>JS Exercise Two</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
<div class="main">
 <h1>Palindromes</h1>
 <hr/>
 <h2 id="is-palindrome"></h2>
</div>
<script src="app.js"></script>
</body>
</html>
```

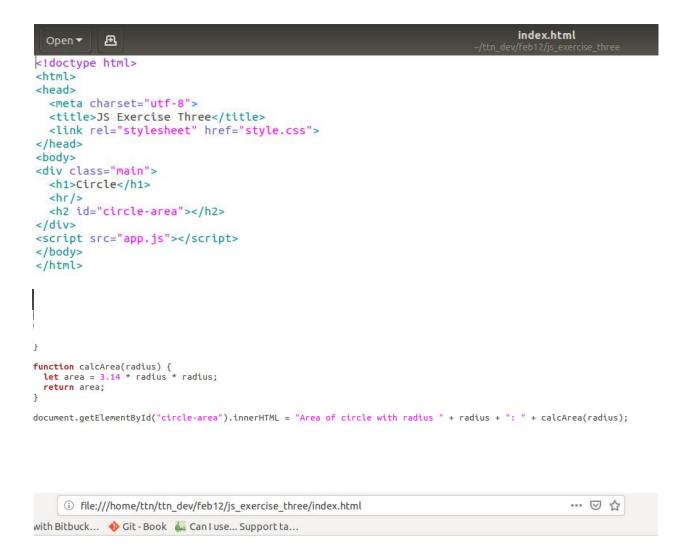
```
app.js
 Open ▼
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var myString;
while (myString == null || !isNaN(myString)) {
  myString = prompt("Your string");
function palindrome(myString) {
 var re = /[\W_]/g;
  var lowRegStr = myString.toLowerCase().replace(re, '');
  var reverseStr = lowRegStr.split('').reverse().join('');
  return reverseStr === lowRegStr;
var answer = document.getElementById("is-palindrome");
if (palindrome(myString) == true) {
  answer.innerHTML = myString + " is a palindrome";
} else {
  answer.innerHTML = myString + " is not a palindrome";
```



Question 3:

Find the area of a circle

Code: https://github.com/Deee92/bootcamp_assignments/tree/master/js_exercise_three



Circle

Area of circle with radius 6: 113.0399999999999

Question 4:

▶ Object { country: "India", capital: "New Delhi" }

▶ Object { country: "India", capital: "New Delhi" }

Copied object:

Copy information of one object to another and log it to console

Code: https://github.com/Deee92/bootcamp assignments/tree/master/js exercise four

```
index.html
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  Open ▼
<!doctype html>
<html>
<head>
  <meta charset="utf-8">
  <title>JS Exercise Four</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
<div class="main">
  <h1>Copying Objects</h1>
  <h2>Original: <span id="original-object"></span></h2>
  <h2>Copy: <span id="copied-object"></span></h2>
</div>
<script src="app.js"></script>
</body>
</html>
var myObject = {
  "country": "India",
  "capital": "New Delhi"
console.log("Original object: ")
console.log(myObject);
document.getElementById("original-object").innerHTML = myObject.country + ", " + myObject.capital;
var myObjectCopy = {};
for (var key in myObject) {
 myObjectCopy[key] = myObject[key];
console.log("Copied object: ");
console.log(myObjectCopy);
document.getElementById("copied-object").innerHTML = myObjectCopy.country + ", " + myObjectCopy.capital;
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                                                Copying Objects
                                               Original: India, New Delhi
                                                 Copy: India, New Delhi
 🗔 🖒 Inspector 🕤 Console Debugger {} Style Editor @ Performance 🖟 Memory 🔄 Network 🛢 Storage 🕆 Accessibility
                                                                                                                    п ... x
 ii Filter output
   Original object:
```

app.js:6:1

app. is:16:1

app.js:17:1

Question 5:

Create a list of objects of Employee with info as follows:

- name, age, salary, DOB
- filter all employees with salary greater than 5000
- group employee on the basis of their age
- fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

Code: https://github.com/Deee92/bootcamp assignments/tree/master/js exercise five

```
index.html
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<!doctype html>
<html>
<head>
 <meta charset="utf-8">
 <title>JS Exercise Five</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
<div class="main">
 <h1>Employees</h1>
 <hr/>
 </div>
<script src="app.js"></script>
</body>
</html>
```

