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Branch & Sem: CSE-A IV Sem
Batch: A-2
Practical No. 4

Aim :

Code :

Sample1.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>sample 1</title>
  </head>
  <body></body>
</html>

<script>
  let marks = Number(prompt("Enter your marks:"));
  if (marks >= 50 && marks <= 65)
  {
    console.log("Grade: C");
  }
  else if (marks >= 60 && marks <= 80)
  {
    console.log("Grade: B");
  }
  else if (marks >= 81 && marks <= 90)
  {
    console.log("Grade: A");
  }
  else if (marks > 90)
  {
    console.log("Grade: A+");
  }
  else
  {
    console.log("Invalid marks entered.");
  }
</script>
```

Sample2.html

```javascript
function removeDuplicates(array) {
  let uniqueArray = [];

  array.forEach((element) => {
    if (!uniqueArray.includes(element)) {
      uniqueArray.push(element);
    }
  });

  return uniqueArray;
}

const inputArray = [1, 2, 3, 2, 4, 5, 1, 6];
const uniqueArray = removeDuplicates(inputArray);
console.log(uniqueArray);
```

Sample3.html

```javascript
function countVowels(paragraph) {
  const vowels = ["a", "e", "i", "o", "u"];
  let vowelCount = 0;
  paragraph = paragraph.toLowerCase();
  for (let i = 0; i < paragraph.length; i++) {
    const character = paragraph[i];

    if (vowels.includes(character)) {
      vowelCount++;
    }
  }
  return vowelCount;
}
const paragraph = "The quick brown fox jumps over the lazy dog";
const vowelCount = countVowels(paragraph);
console.log("Number of vowels:", vowelCount);
```

Sample4.html

```javascript
function reverseNumber(number) {
  let reverse = 0;
  while (number > 0) {
    const digit = number % 10;
    reverse = reverse * 10 + digit;
    number = Math.floor(number / 10);
```
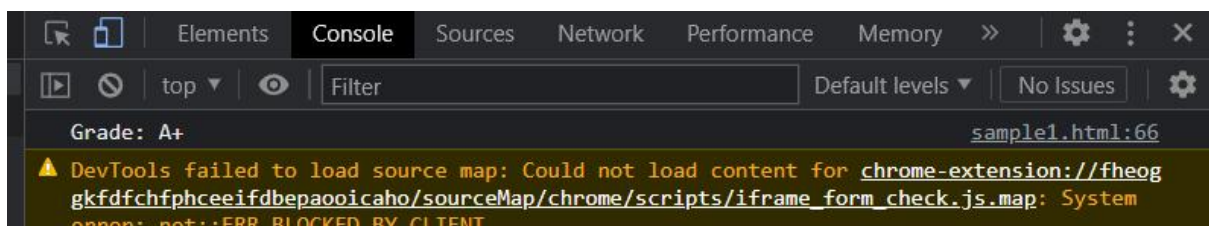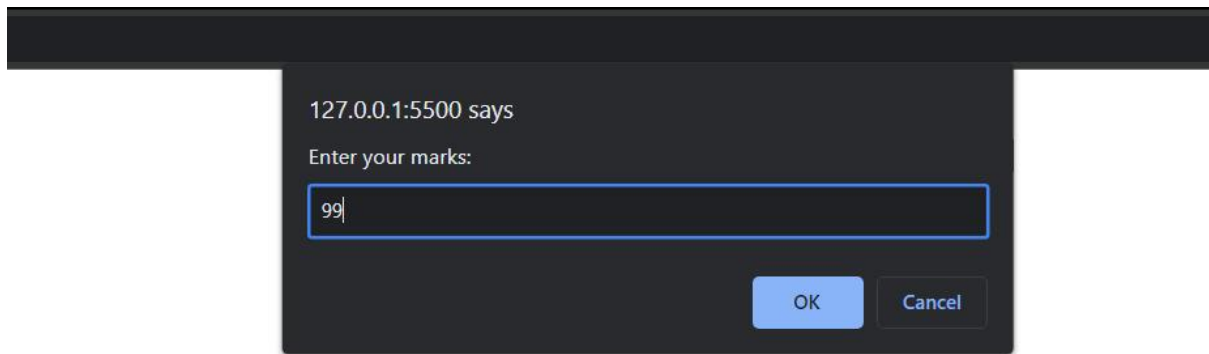
```
  }
    return reverse;
}
function isPalindrome(number) {
    const reverse = reverseNumber(number);
    return number === reverse;
}

const number1 = 12345;
const number2 = 12321;
console.log("Is", number1, "a palindrome?", isPalindrome(number1));
console.log("Is", number2, "a palindrome?", isPalindrome(number2));
```
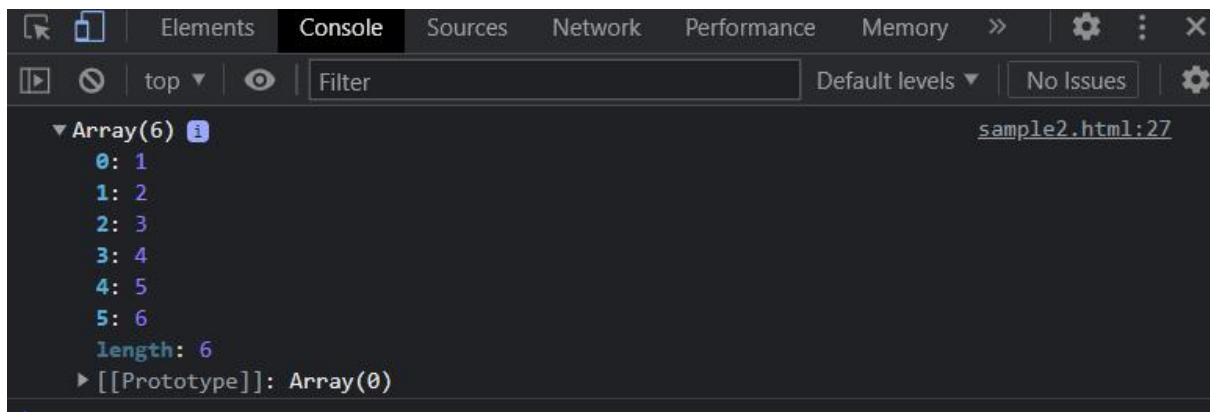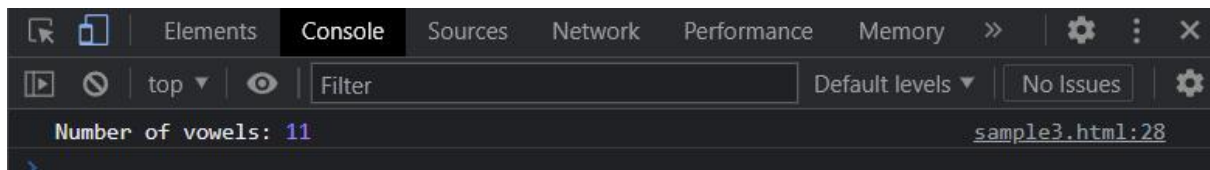
Output :

Sample 1

127.0.0.1:5500 says

Enter your marks:

99

OK   Cancel

Elements   Console   Sources   Network   Performance   Memory   »

top ▼   Filter   Default levels ▼   No Issues

Grade: A+   sample1.html:66

⚠ DevTools failed to load source map: Could not load content for chrome-extension://fheog
gkfdfchfphceeifdbepaooicaho/sourceMap/chrome/scripts/iframe_form_check.js.map: System
error: net::ERR_BLOCKED_BY_CLIENT

Sample 2

Sample 3

Sample 4