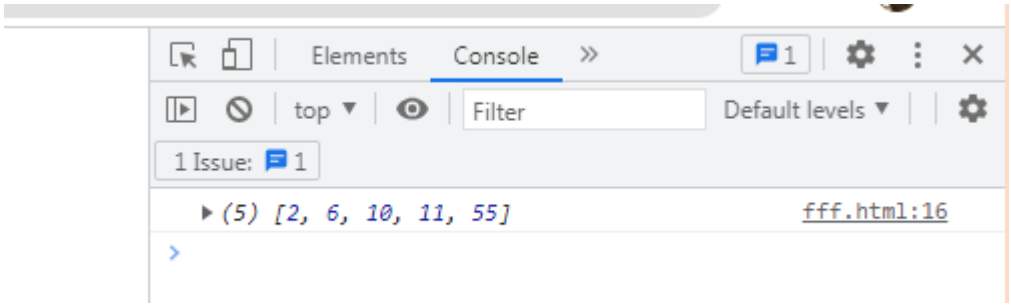
Assignment

[a] Write a Javascript Program to sort Elements : 11,2,55,6,10 [Use any Sorting Algorithm].

code:

```
<html>
<body>
<script>
const insertion_Sort = (nums) => {
  for (let i = 1; i < nums.length; i++) {
    let j = i - 1
    let temp = nums[i]
    while (j >= 0 && nums[j] > temp) {
      nums[j + 1] = nums[j]
      j--
    }
    nums[j+1] = temp
  }
  return nums
}
console.log(insertion_Sort([11,2,55,6,10]));
</script>
</body>
</html>
```

output:



[b] Write a Program to Count the BloodGroup Donors for each Bloodgroup. DonorId DonorName Blood Group 101 Yuvraj B Positive 102 Kartik A Positive 103 Hardik B Positive 104 Shanvi O Positive 105 Yuvraj O Positive

code:

```
<html>
<body>
<script>
const donors = [
  { DonorId: 101, DonorName: "Yuvraj", "Blood Group": "B Positive" },
  { DonorId: 102, DonorName: "Kartik", "Blood Group": "A Positive" },
  { DonorId: 103, DonorName: "Hardik", "Blood Group": "B Positive" },
  { DonorId: 104, DonorName: "Shanvi", "Blood Group": "O Positive" },
  { DonorId: 105, DonorName: "Yuvraj", "Blood Group": "O Positive" }
];
const counts = {};
donors.forEach(donor => {
  const bloodGroup = donor["Blood Group"];
  if (counts[bloodGroup]) {
    counts[bloodGroup]++;
  } else {
    counts[bloodGroup] = 1;
  }
});
```

```
for (const bloodGroup in counts) {
  console.log(`${bloodGroup}: ${counts[bloodGroup]}`);
</script>
</body>
</html>
```

output: