

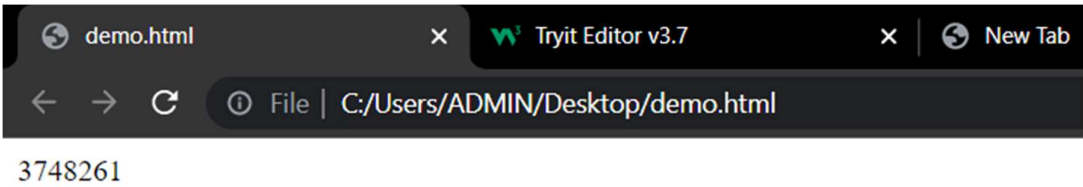
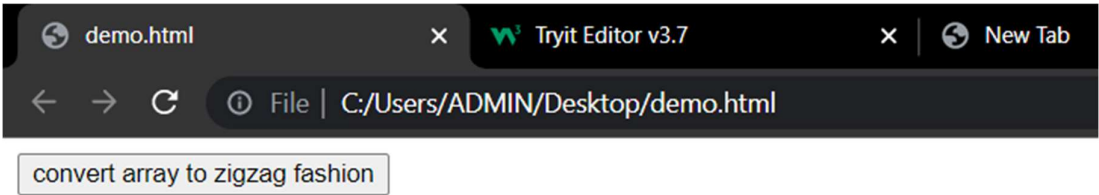
Q1: Printing an array into Zigzag fashion. Suppose you were given an array of integers, and you are told to sort the integers in a zigzag pattern

Code:

```
<html>
<head>
<script>
function zigzag()
{
  var n = Number(prompt("enter size"))
  var arr = new Array(n)
  for(var i=0;i<n;i++)
  {
    arr[i]=Number(prompt("enter element"))
  }
  var temp;
  var flag=true;
  for(var i=0;i<=n-1;i++)
  {
    if(flag)
    {
      if(arr[i]>arr[i+1])
      {
        temp=arr[i];
        arr[i]=arr[i+1]
        arr[i+1]=temp;
      }
    }
    else
    {
      if(arr[i]<arr[i+1])
      {
        temp=arr[i];
        arr[i]=arr[i+1]
        arr[i+1]=temp;
      }
    }
    flag=!flag
  }

  for(var i = 0; i < n; i++){
    document.write(arr[i]);
  }
}
</script>
</head>
<body>
<input type="button" onclick="rearrange()" value="rearrange positive and negative numbers">
</body>
</html>
```

Output:



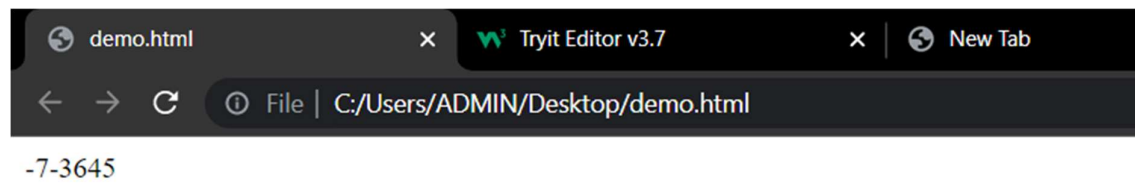
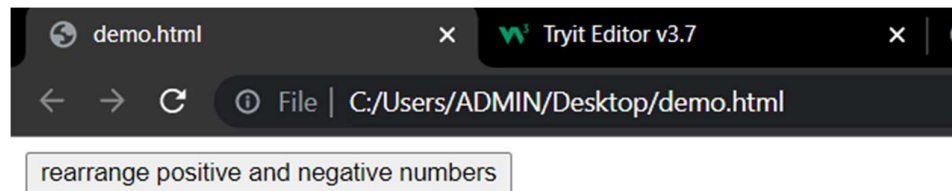
Q2: The problem to rearrange positive and negative numbers in an array .

Code:

```
<!DOCTYPE html>
<html>
<head>
<script>
function rearrange()
{
    var temp;
    var n = Number(prompt("enter size"));
    var arr = new Array(n)
    for(var i=0;i<n;i++)
    {
        arr[i]=Number(prompt("enter element"));
    }
    var low=0
    var high=n-1
    while(low<=high)
    {
        if(arr[low]>0)
        {
            temp=arr[low]
            arr[low]=arr[high]
            arr[high]=temp
            high=high-1;
        }
        else{
            low=low+1;
        }
    }

    for(var i = 0; i < n; i++){
        document.write(arr[i]);
    }
}
</script>
</head>
<body>
<input type="button" onclick="rearrange()" value="rearrange positive and negative numbers">
</body>
</html>
```

Output:



Q4. Write a Java script program to o find all pairs of elements in an Array whose sum is equal to a given number.

Code:

```
<!DOCTYPE html>
<html>
<head>
<script>
function findpairs()
{
var n = Number(prompt("enter size"));
var arr = new Array(n)
for(var i=0;i<n;i++)
{
arr[i]=Number(prompt("enter element"));
}
var sum = Number(prompt("enter target"));

for (let i = 0; i < n; i++)
for (let j = i + 1; j < n; j++)
if (arr[i] + arr[j] == sum)
document.write("(" + arr[i] + " , " + arr[j] + ") " + "<br>");

}
</script>
</head>
<body>
<input type="button" onclick="findpairs()" value="Find pairs">
</body>
</html>
```

Output:

