

Assignment 2

Que1 :

```
function Maximum(arr:number[]):number
{
  //var no1:number[]=no.sort();

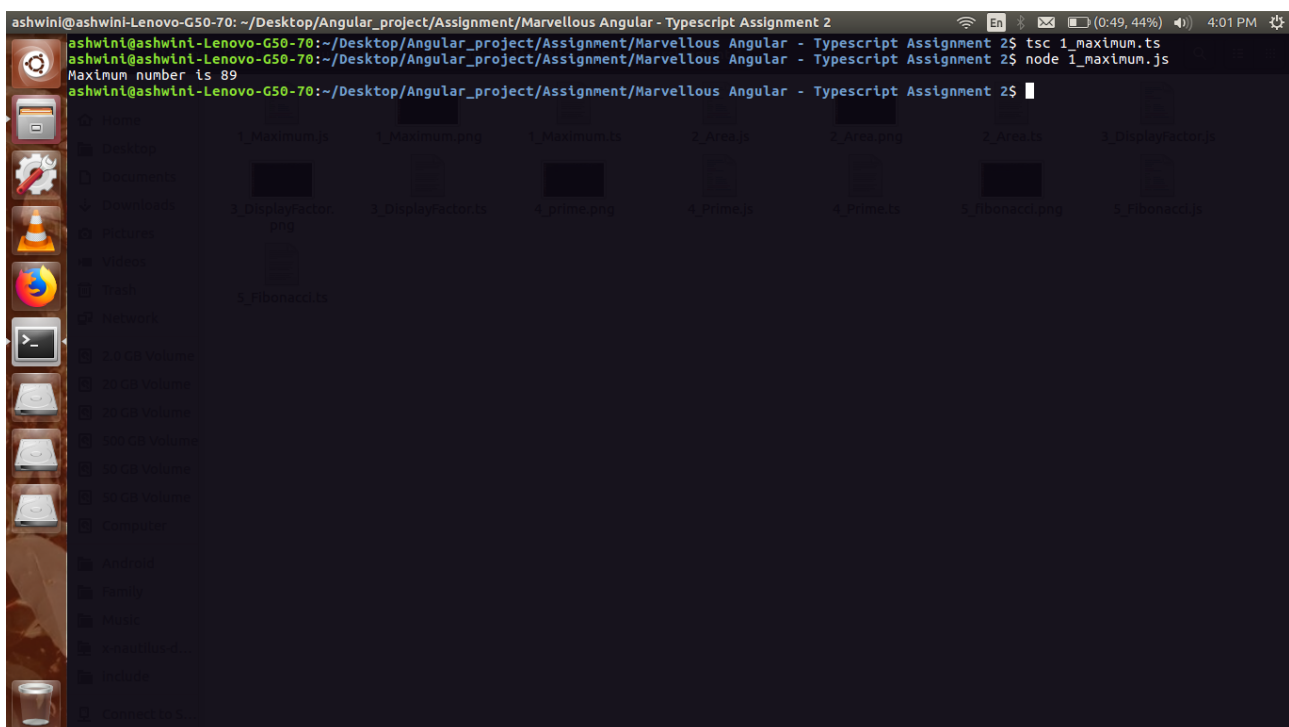
  var max=arr[0];

  for(var j=0;j<arr.length;j++)
  {
    if(arr[j]>max)
      max=arr[j];
  }

  return max;
}

var arr:number[]=[23,89,6,29,56,45,77,32];

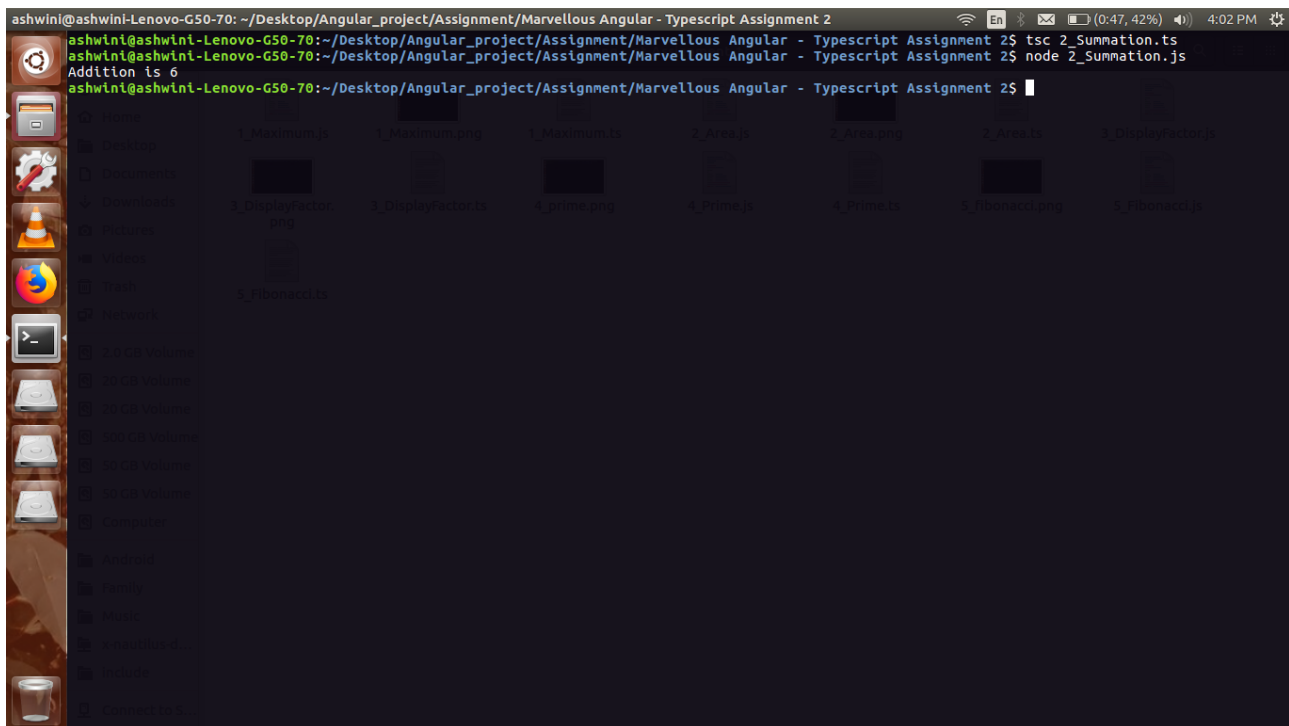
var result=Maximum(arr);
console.log("Maximum number is "+result);
```



Que 2:

```
function Summation(arr:number[]):number
{
var sum=0;
  for(var i=0;i<arr.length;i++)
  {
    sum=sum+arr[i];
  }
  return sum;
}
```

```
var arr:number[]=[1,2,3]
console.log("Addition is "+Summation(arr));
```



Que 3

```
function Maximum(arr:number[]):number
{
    var max1=0,max2=0;

    for(var i=0;i<arr.length;i++)
    {

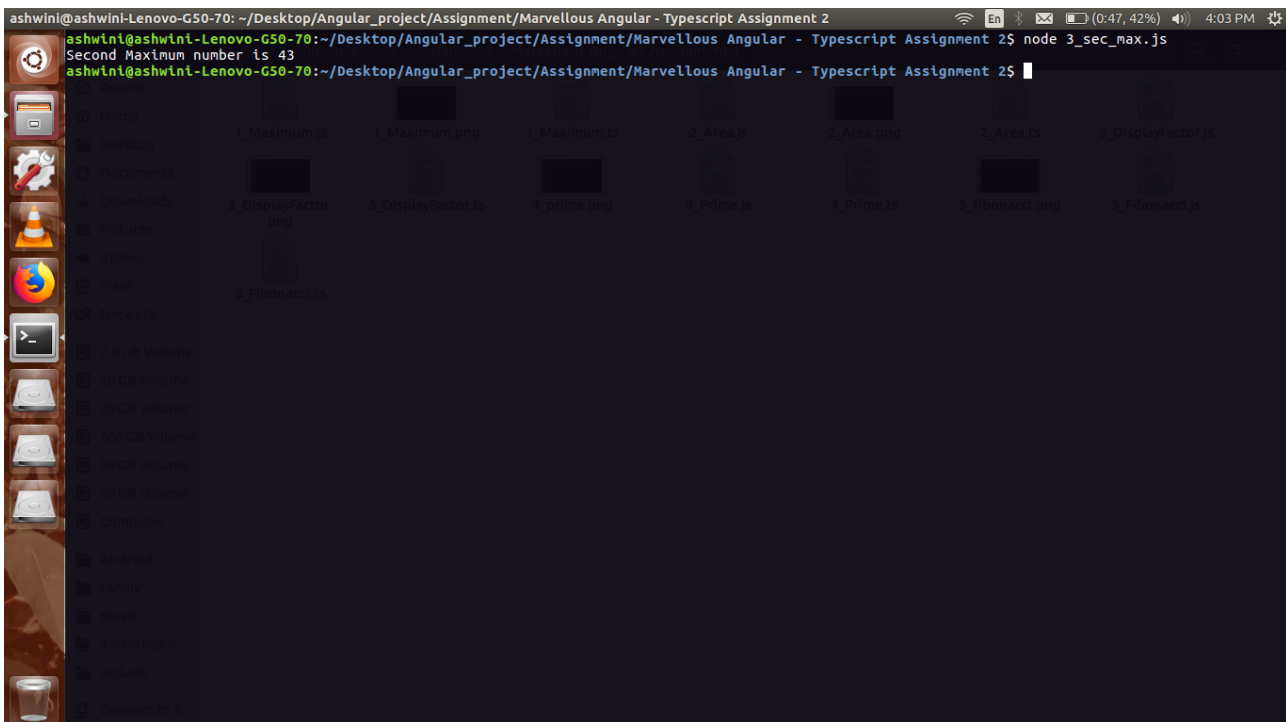
        if(arr[i] > max1)
        {
            max2 = max1;
            max1 = arr[i];
        }
        else if(arr[i] > max2 && arr[i] < max1)
        {

            max2 = arr[i];
        }
    }

    return max2;

}

var arr:number[]=[343,12,4,1,34,1,43,23];
console.log("Second Maximum number is "+Maximum(arr));
```



Que 4 :

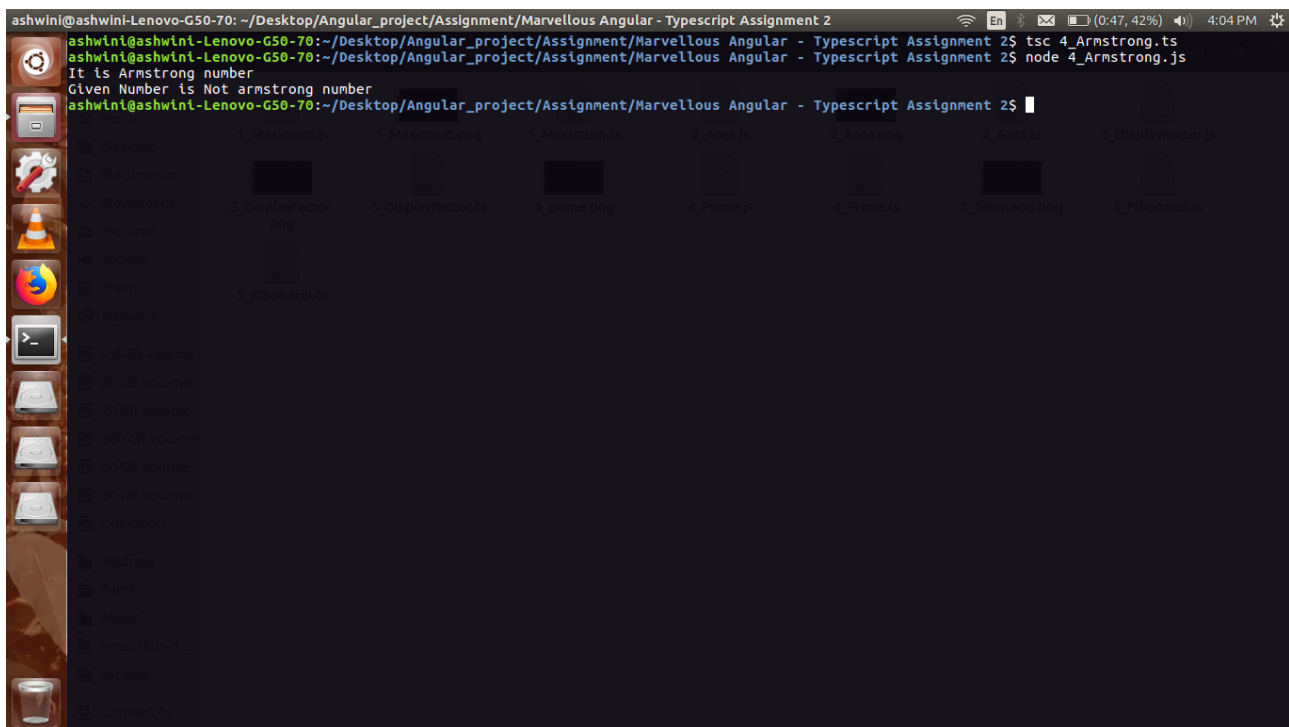
```
function ChkArmstrong(num:number)
{
    var rem;
    var originalNumber, remainder, result = 0;

    const digits = String(num).split("")
    const sum = digits.reduce((total, current) => {
        return total + Math.pow(parseInt(current, 10), digits.length)
    }, 0)

    if(sum==num)
    console.log("It is Armstrong number");
    else
    console.log("Given Number is Not armstrong number");

}

var res=ChkArmstrong(153);
var res1=ChkArmstrong(111);
```



Que 5:

```
var str:string="Pune Kothrud Marvellous Infosystems"
```

```
function ChkString( str:string)
{
    var res = str.split(" ",str.length);
    console.log(res)

    for(var i=0;i<res.length;i++)
    {
        if(res[i]=="Marvellous")
            console.log("String contains Marvellous in it");
    }
}
```

```
ChkString(str);
```

