```
function Maximum():number
   var Arr: number[] = [23, 89, 6, 29, 56, 45, 77, 32];
   var max:number = Arr[0];
   for(var i = 0; i < Arr.length; i++)</pre>
      if(Arr[i] > max)
         max = Arr[i];
   }
   return max;
var maxnum:number;
maxnum = Maximum();
console.log("maximum Number is:" + maxnum);
OUTPUT
C:\Users\vitthal Pathare\Desktop>cd "Assignment 2"
C:\Users\vitthal Pathare\Desktop\Assignment 2>tsc maximum.ts
C:\Users\vitthal Pathare\Desktop\Assignment 2>node maximum.js
maximum Number is:89
C:\Users\vitthal Pathare\Desktop\Assignment 2>
```

```
function Summation():number
{
    var Arr:number[] = [23, 6, 7, 4, 5, 7];
    var total:number = 0;
    for(var i = 0; i < Arr.length; i++)
    {
        total = total + Arr[i];
    }
    return total;
}

var iret:number;
iret = Summation();
console.log("Addition of numbers:" + iret);

OUTPUT</pre>
```

```
C:\Users\vitthal Pathare\Desktop\Assignment 2>tsc Summation.ts
C:\Users\vitthal Pathare\Desktop\Assignment 2>node Summation.js
Addition of numbers:52
C:\Users\vitthal Pathare\Desktop\Assignment 2>
```

```
function Maximum():number
{
    var Arr:number[] = [23, 89, 6, 29, 56, 45, 77, 32];
    var max:number = 0;
    var secondmax:number = 0;

    for(var i = 0; i < Arr.length; i++)
    {
        if(Arr[i] > max)
        {
            secondmax = max;
            max = Arr[i];
        }
        else if((Arr[i] > secondmax) && (max != Arr[i]))
        {
            secondmax = Arr[i];
        }
        return secondmax;
}

var iret:number;
iret = Maximum();
console.log("Second Maximum Number is:" + iret);

OUTPUT
```

```
C:\Users\vitthal Pathare\Desktop\Assignment 2>tsc second_max.ts
C:\Users\vitthal Pathare\Desktop\Assignment 2>node second_max.js
Second Maximum Number is:77
C:\Users\vitthal Pathare\Desktop\Assignment 2>
```

```
var ChkArmstrong = (No:number) =>
   var digit:number , total:number , cnt:number , i:number = 0;
   var power:number = 1;
   var temp:number = 0;
   temp = No;
   while (temp != 0)
      cnt++;
      temp = temp / 10;
   temp = No;
   while (temp != 0)
      digit = temp % 10;
      for(i = 1 ; i <= cnt ; i++)
         power = power * digit;
      total = total + power;
      power = 1;
      temp = temp / 10;
   }
   if(total == No)
      return true;
   else
     return false;
 }
var res:boolean;
res = ChkArmstrong(153);
if(res == true)
  console.log("Number is not Armstrong");
else
  console.log("Number is Armstrong");
```

```
C:\Users\vitthal Pathare\Desktop\Assignment 2>tsc Armstrong.ts
C:\Users\vitthal Pathare\Desktop\Assignment 2>node Armstrong.js
Number is Armstrong
C:\Users\vitthal Pathare\Desktop\Assignment 2>
```

```
var ChkString = ()=>
   var str:string = "Pune Kothrud Marvellous Infosystems";
   var search = /Marvellous/i;
   if(search.test(str)){
   return true;
   }
   else{
      return false;
var res:boolean;
res = ChkString();
if(res == true)
   console.log("String contains Marvellous in it");
}
else
   console.log("No such String..");
}
```

## **OUTPUT**

```
C:\Users\vitthal Pathare\Desktop\Assignment 2>tsc String_check.ts
C:\Users\vitthal Pathare\Desktop\Assignment 2>node String_check.js
String contains Marvellous in it
C:\Users\vitthal Pathare\Desktop\Assignment 2>
```