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**Course: Blockchain Programming** 

Section:"B"

## **Power function Task:**

## Output:

```
enter a number5
enter power of the number?5
3125
55.90169943749474
```

**Nested Map Task:** 

## Marksheet:

```
var studentlist = new Map()
var HamzaMarksheet=new Map()
var phymap=new Map()
phymap.set ("TotalMarks", "100")
phymap.set("MarksObtained", "75")
HamzaMarksheet.set("Physics", phymap)
var chemmap=new Map()
chemmap.set ("TotalMarks", "100")
chemmap.set("MarksObtained", "85")
HamzaMarksheet.set("Chemistry", chemmap)
var compmap=new Map()
compmap.set ("TotalMarks", "100")
compmap.set("MarksObtained", "90")
HamzaMarksheet.set("Computer", compmap)
var mathmap=new Map()
mathmap.set ("TotalMarks", "100")
mathmap.set("MarksObtained", "95")
HamzaMarksheet.set("Maths", mathmap)
var urdumap=new Map()
urdumap.set ("TotalMarks", "100")
urdumap.set("MarksObtained", "75")
HamzaMarksheet.set("Urdu", urdumap)
studentlist.set("hamza",HamzaMarksheet)
console.log(studentlist.size)
console.table(studentlist)
```

```
var bilalMarksheett=new Map()
var phymap=new Map()
phymap.set ("TotalMarks", "100")
phymap.set("MarksObtained", "85")
bilalMarksheett.set("Physics", phymap)
var chemmap=new Map()
chemmap.set ("TotalMarks", "100")
chemmap.set("MarksObtained", "75")
bilalMarksheett.set("Chemistry", chemmap)
var compmap=new Map()
compmap.set ("TotalMarks", "100")
compmap.set("MarksObtained", "80")
bilalMarksheett.set("Computer", compmap)
var mathmap=new Map()
mathmap.set ("TotalMarks", "100")
mathmap.set("MarksObtained", "85")
bilalMarksheett.set("Maths", mathmap)
var urdumap=new Map()
urdumap.set ("TotalMarks", "100")
urdumap.set("MarksObtained", "65")
bilalMarksheett.set("Urdu", urdumap)
studentlist.set("Bilal",bilalMarksheett)
console.log(studentlist.size)
console.log(studentlist)
console.table(bilalMarksheett )
var total=0;
var obtained=0;
var arr=bilalMarksheett.entries()
for (item of arr){
 var persubject = ((bilalMarksheett.get(item[0]).get("MarksObtained")/bilalMarksheett.get(item[0]).get("TotalMarks")))*1
 console.log("Percentage of "+item[0]+" :"+ persubject)
 total=total+parseInt(bilalMarksheett.get(item[0]).get("TotalMarks"))
 obtained=obtained+parseInt(bilalMarksheett.get(item[0]).get("MarksObtained"))
 var totalpercentage=(obtained/total)*100
console.log("\n****** REPORT CARD **********")
console.log("\nGrand Obtained Marks: ",obtained)
console.log("Grand Total Marks: ", total)
console.log("Final Percentage is: ",totalpercentage,"\n")
console.log("\n********** REPORT CARD ***********\n")
```

## Output:

-0	(iteration index)	Key	Values
₽	(Julia Delon Index)		THE CONTRACT OF THE CONTRACT O
		'Physics'	<pre>Map { 'TotalMarks' =&gt; '100', 'MarksObtained' =&gt; '85' }</pre>
		'Chemistry'	<pre>Map { 'TotalMarks' =&gt; '100', 'MarksObtained' =&gt; '75' }</pre>
		'Computer'	<pre>Map { 'TotalMarks' =&gt; '100', 'MarksObtained' =&gt; '80' }</pre>
		'Maths'	<pre>Map { 'TotalMarks' =&gt; '100', 'MarksObtained' =&gt; '85' }</pre>
		'Urdu'	<pre>Map { 'TotalMarks' =&gt; '100', 'MarksObtained' =&gt; '65' }</pre>
	Percentage of Chemis' Percentage of Comput' Percentage of Maths Percentage of Urdu : ****************** REPOI Grand Obtained Marks	er :80 :85 55 RT CARD ****** : 390	·······
	Grand Total Marks: ! Final Percentage is:  ****************** REPO	78	