R-Exercise.R

rojal

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```
#1.1.Create a vector named sales_data with the following sales figures (in thousands of dolla
rs) for the last 12 months:[45, 60, 35, 75, 80, 62, 48, 53, 69, 72, 40, 55].
sales_data=c(45,60,35,75,80,62,48,53,69,72,40,55)
#2.Calculate the total annual sales by summing the elements in the sales data vector.
total=sum(sales_data)
print(total)
## [1] 694
#3.Compute the monthly average sales by dividing the total annual sales by 12 (the number of
months).
monthly_avg=total/12
print(monthly_avg)
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## [1] 57.83333
```

#4.Determine the month with the highest sales and the corresponding sales figure. Also, find the month with the lowest sales and its sales figure. high_Sale=max(sales_data) print(high_Sale)

```
## [1] 80
```

match(high_Sale,sales_data)#for month

```
## [1] 5
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low_sale=min(sales_data) print(low_sale)

[1] 35

match(low_sale,sales_data)

[1] 3

1 of 2 06-11-2023, 21:25

```
#5.Increase the sales figure for the third month (March) by 10%
inc=sales_data[3]+sales_data[3]*0.1
print(inc)
```

[1] 38.5

#6.Sort the sales_data vector in ascending order and create a new vector named sorted_sales.
sorted_sales=sort(sales_data)
print(sorted_sales)

[1] 35 40 45 48 53 55 60 62 69 72 75 80

#7.Sort the sales_data vector in descending order and create a new vector named reverse_sorte d_sales.

reverse_sorted_sales=sort(sales_data,decreasing=TRUE)
print(reverse_sorted_sales)

[1] 80 75 72 69 62 60 55 53 48 45 40 35

#8.Calculate the median sales value from the sorted_sales vector.
medianValue<-median(sorted_sales)
print(medianValue)</pre>

[1] 57.5

2 of 2 06-11-2023, 21:25