

```
as png file  
analysis.png")  
  
object  
, 2020  
decimal_date(ymd("2020-01-22")),  
)  
d("2020-01-22")) :  
n "decimal_date"  
  
y Data of sales",  
e",  
= "Weekly Data of sales", ylab = "Total Revenue", :
```

C:\Users\GOPI KRISHNA. D\Documents\program 2 predictive analysis program - R Editor

```
x <- c(580, 7813, 28266, 59287, 75700,  
      87820, 95314, 126214, 218843, 471497,  
      936851, 1508725, 2072113)  
  
# library required for decimal_date() function  
library(lubridate)  
  
# output to be created as png file  
png(file = "predictiveAnalysis.png")  
  
# creating time series object  
# from date 22 January, 2020  
mts <- ts(x, start = decimal_date(ymd("2020-01-22")),  
          frequency = 365.25 / 7)  
  
# plotting the graph  
plot(mts, xlab = "Weekly Data of sales",  
      ylab = "Total Revenue",  
      main = "Sales vs Revenue",  
      col.main = "darkgreen")  
  
# saving the file  
dev.off()
```



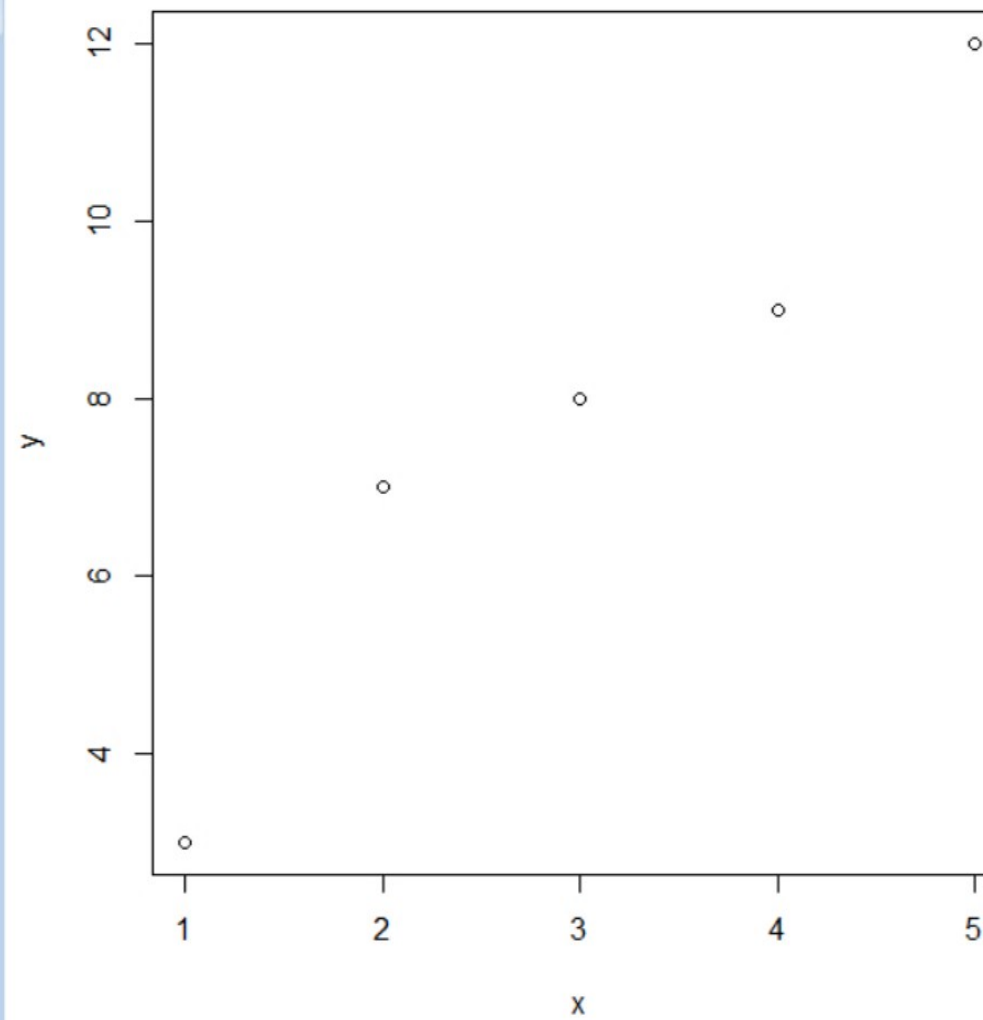
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A. D\Documents\program 3 plotting graph program - R Editor

```
5)  
12)
```

R Graphics: Device 2 (ACTIVE)



NA. D:\Documents\program 4 the central tendency and data dispersion multimode program 3 type 2 - R Editor

```
3, 20, 23, 39, 23, 40,  
56, 23, 29, 56, 37,  
8, 56, 56)
```

ncy table

y table

```
ch(y == max(y))]
```

R Console

```
> draw line to point  
Error: unexpected symbol in "draw line"  
> # Defining vector  
> x <- c(3, 7, 5, 13, 20, 23, 39, 23, 40,  
+       23, 14, 12, 56, 23, 29, 56, 37,  
+       45, 1, 25, 8, 56, 56)  
>  
> # Generate frequency table  
> y <- table(x)  
>  
> # Print frequency table  
> print(y)  
x  
 1  3  5  7  8 12 13 14 20 23 25 29 37 39  
1  1  1  1  1  1  1  1  1  4  1  1  1  1  
>  
> # Mode of x  
> m <- names(y)[which(y == max(y))]  
>  
> # Print mode  
> print(m)  
[1] "23" "56"  
> |
```



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D:\Documents\program 4 the central tendency and data dispersion single mode value program - R Editor

```
20, 23, 39,  
4, 12, 56,  
7, 45, 1, 25, 8)
```

```
y table
```

```
ble
```

```
y == max(y))]
```

R Console

```
> print(m)  
[1] "23" "56"  
> # Defining vector  
> x <- c(3, 7, 5, 13, 20, 23, 39,  
+       23, 40, 23, 14, 12, 56,  
+       23, 29, 56, 37, 45, 1, 25, 8)  
>  
> # Generate frequency table  
> y <- table(x)  
>  
> # Print frequency table  
> print(y)  
x  
 1  3  5  7  8 12 13 14 20 23 25 29 37 39  
1  1  1  1  1  1  1  1  1  4  1  1  1  1  
>  
> # Mode of x  
> m <- names(y)[which(y == max(y))]  
>  
> # Print mode  
> print(m)  
[1] "23"  
> |
```



NA. D\Documents\program 5 the correction and normalization program - R Editor

```
596,645,874,141,639,465,999,654)

ca
(as.data.frame(gfg), method=c("range"))

s, as.data.frame(gfg))
```

R Console

```
>
> # Mode of x
> m <- names(y)[which(y == max(y))]
>
> # Print mode
> print(m)
[1] "23"
> library(caret)
Error in library(caret) : there is no package called 'ca
>
> # Create data
> gfg <- c(244,753,596,645,874,141,639,465,999,654)
>
> # normalizing data
> ss <- preProcess(as.data.frame(gfg), method=c("range"))
Error in preProcess(as.data.frame(gfg), method = c("rang
could not find function "preProcess"
>
> gfg <- predict(ss, as.data.frame(gfg))
Error in predict(ss, as.data.frame(gfg)) : object 'ss' n
> gfg
[1] 244 753 596 645 874 141 639 465 999 654
> |
```



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Documents\program 6 the regression analysis using r tool program - R Editor

| Median | 3Q     | Max    |
|--------|--------|--------|
| 3909   | 0.9679 | 1.7957 |

| Std. Error | z value | Pr(> z ) |
|------------|---------|----------|
| 7.9675     | -2.477  | 0.0132 * |
| 0.2637     | 2.467   | 0.0136 * |

0.001 \*\*\* 0.01 \*\* 0.05 . 0.1 ' ' 1

for binomial family taken to be 1)

|     |       |                    |
|-----|-------|--------------------|
| 352 | on 39 | degrees of freedom |
| 848 | on 38 | degrees of freedom |

ing iterations: 4

R Console

```
>
> # Mode of x
> m <- names(y)[which(y == max(y))]
>
> # Print mode
> print(m)
[1] "23"
> library(caret)
Error in library(caret) : there is no package called 'ca
>
> # Create data
> gfg <- c(244,753,596,645,874,141,639,465,999,654)
>
> # normalizing data
> ss <- preProcess(as.data.frame(gfg), method=c("range"))
Error in preProcess(as.data.frame(gfg), method = c("rang
could not find function "preProcess"
>
> gfg <- predict(ss, as.data.frame(gfg))
Error in predict(ss, as.data.frame(gfg)) : object 'ss' n
> gfg
[1] 244 753 596 645 874 141 639 465 999 654
> |
```



HNA. D:\Documents\program 6 the regression analysis using r tool program type 2 - R E...

ame

present as PNG file  
ticRegressionGFG.png")

on x-axis and result on y-axis  
xlab = "IQ Level",  
y = "Probability of Passing")

stic model  
lm(IQ, family=binomial, df)

based on prediction using the regression model  
data.frame(IQ=x), type="resp"), add=TRUE)

set of points  
to the regression model  
plot(g, pch=30)

the regression model

le

R Console

```
>
> # Mode of x
> m <- names(y)[which(y == max(y))]
>
> # Print mode
> print(m)
[1] "23"
> library(caret)
Error in library(caret) : there is no package called 'ca
>
> # Create data
> gfg <- c(244,753,596,645,874,141,639,465,999,654)
>
> # normalizing data
> ss <- preProcess(as.data.frame(gfg), method=c("range"))
Error in preProcess(as.data.frame(gfg), method = c("rang
could not find function "preProcess"
>
> gfg <- predict(ss, as.data.frame(gfg))
Error in predict(ss, as.data.frame(gfg)) : object 'ss' n
> gfg
[1] 244 753 596 645 874 141 639 465 999 654
> |
```



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```
()' for more information and  
w to cite R or R packages in publications.
```

```
some demos, 'help()' for on-line help, or  
an HTML browser interface to help.  
R.
```

```
workspace restored]
```

```
, 25, 9, 26)  
Vectors:")  
ors:"  
  
26  
scending order:")  
ding order:"  
  
30  
descending order:")  
nding order:"  
creasing=TRUE))  
9
```

C:\Users\GOPI KRISHNA. D\Documents\program 1 sorting program - R Editor

```
x = c(10, 20, 30, 25, 9, 26)  
print("Original Vectors:")  
print(x)  
print("Sort in ascending order:")  
print(sort(x))  
print("Sort in descending order:")  
print(sort(x, decreasing=TRUE))
```

