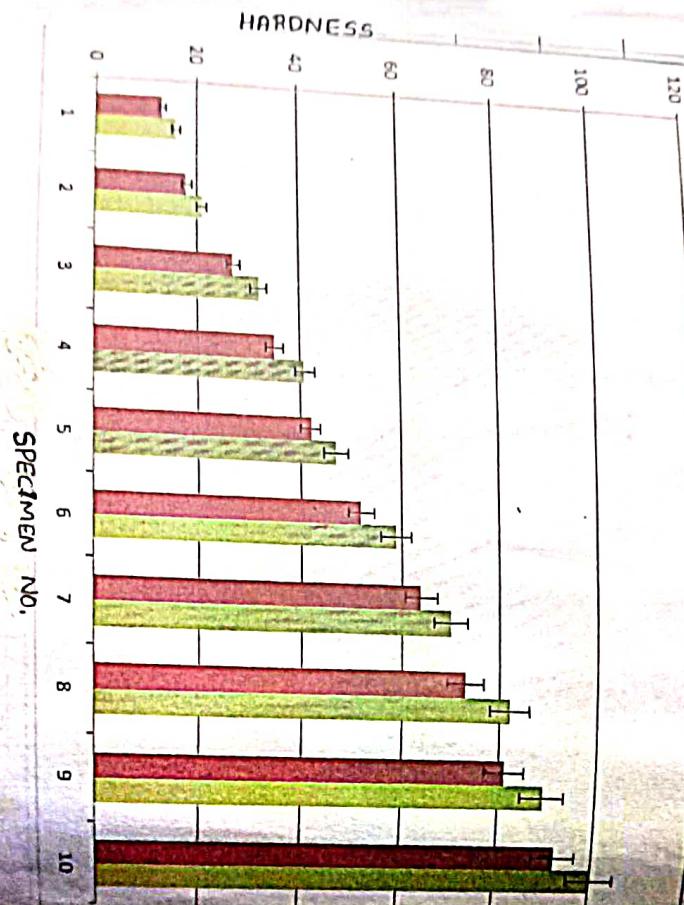
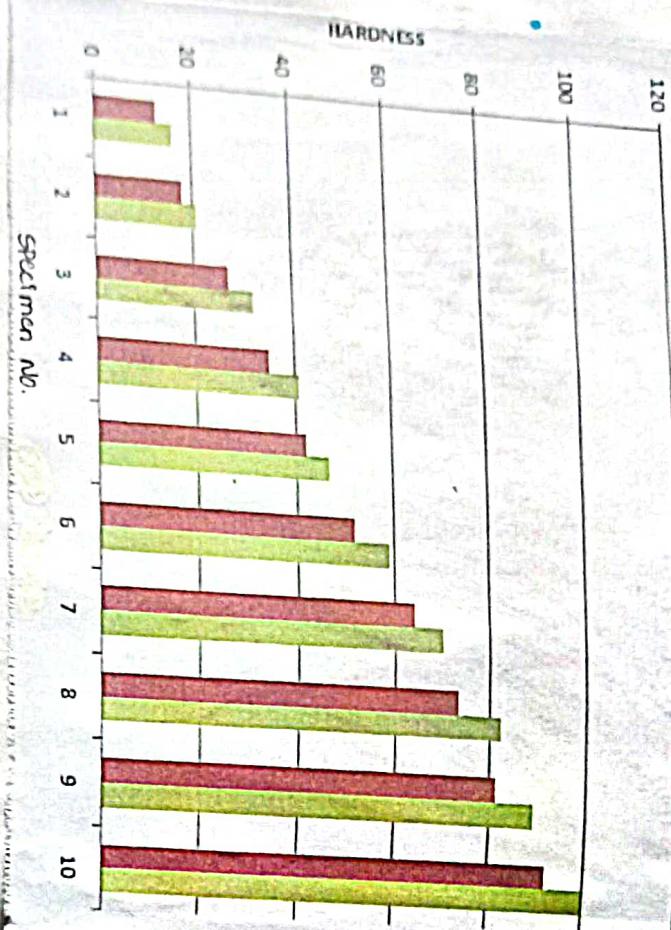


BAR CHART WITH ERROR BARSSimple Bar Chart

- ① To Create a simple bar chart for the example  
as shown below represent a error bar  
Select the table → Select chart types → Select Column Chart  
→ Select the error bar.

Specimen no.	measured Hardness	Standard Deviation
1	13	16
2	18	21
3	27	32
4	35	41
5	42	47
6	52	59
7	64	70
8	73	82
9	81	89
10	92	100

## COLUMN CHART



## Column Chart

### 2. Column Chart

Create a Column Chart for two input values as shown in table below  
Select the table → Select chart types → Select Column Chart

S.I.NO.	MEASURED HARDNESS	STANDARD VHN HARDNESS
1	13	16
2	18	21
3	27	32
4	35	41
5	42	47
6	52	59
7	64	70
8	73	82
9	81	89
10	92	100

## SCATTERED CHART

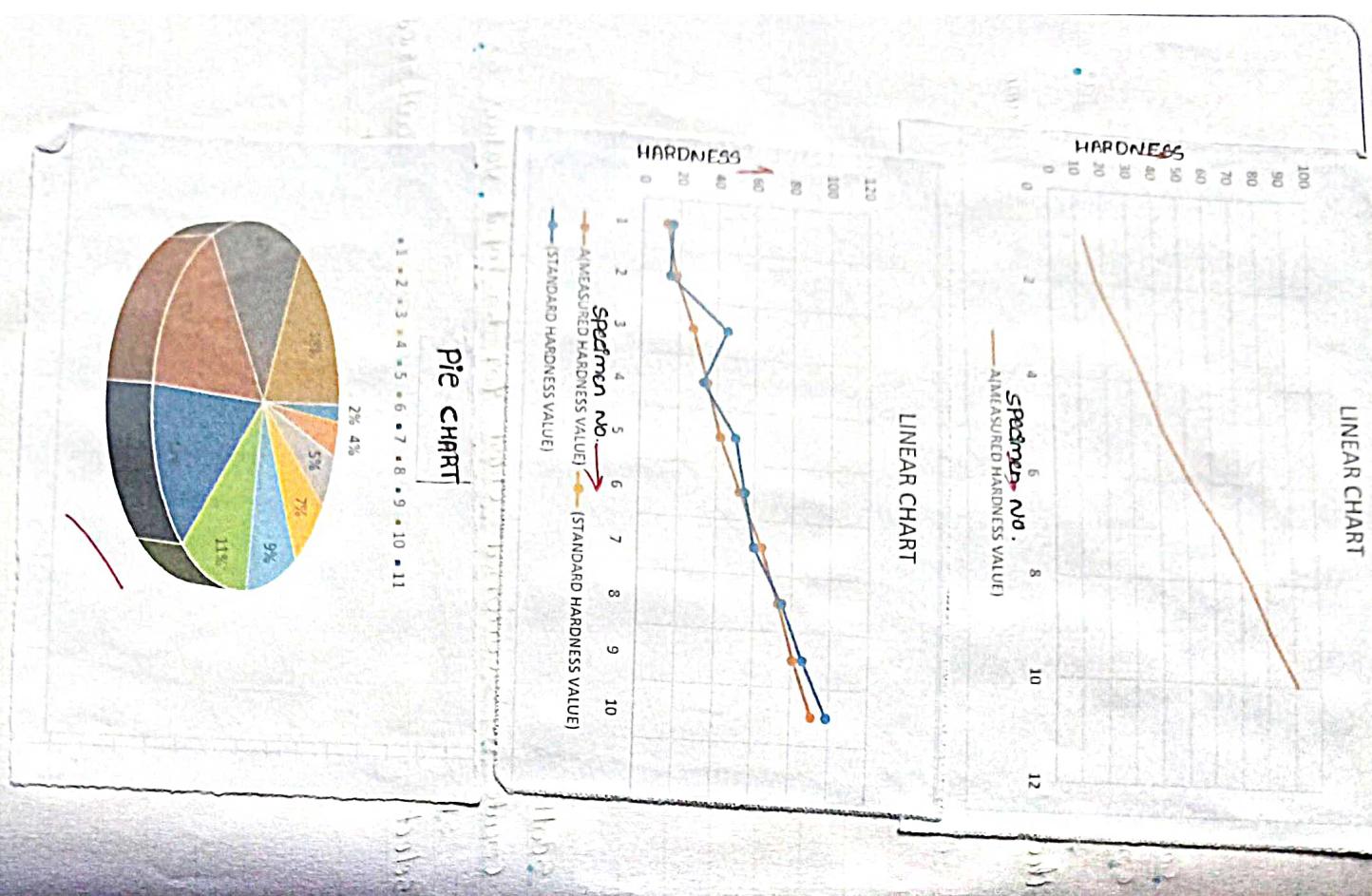
### 3. Scattered chart

Create a Scattered chart for two input values as shown in table.  
Select the table → Select chart types → Select Scattered chart



• MEASURED HARDNESS VALUE

## LINEAR CHART



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Linear chart

Create a linear chart for two input values as shown in table

Select the table → Select chart types → Select linear chart

SL NO.	MEASURED HARDNESS	STANDARD HARDNESS
1	13	16
2	18	15
3	27	45
4	35	33
5	42	50
6	52	55
7	64	60
8	73	75
9	81	86
10	91	99

5.

Pie chart

Create a pie chart for the values shown in table  
Select the table → Select chart types → Select pie chart

SL NO. HARDNESS

1	13
2	18
3	27
4	35
5	42
6	52
7	64
8	73
9	81
10	91

*Ans. Drawing*

1. Function computing Sum, Average, count, max and min, Computing weighted average, trigonometric function exponential function, using the convert function to convert units

### Procedure :-

\* Open MS Excel sheet

\* Enter the data

SL NO	USN	Name	MARKS	PERCENTAGE
1	1B122ME001	A	58	58%
2	1B122ME002	B	95	95%
3	1B122ME003	C	66	66%
4	1B122ME004	D	35	35%
5	1B122ME005	E	89	89%
6	1B122ME006	F	75	75%
7	1B122ME007	G	79	79%
8	1B122ME008	H	64	64%
9	1B122ME009	I	39	39%
10	1B122ME010	J	75	75%

SUM :-

\* Enter Student name → Input

\* Enter student marks → Total → Auto Sum → Formula

$$^{11} = \text{Sum}(A1:A10)$$

AVERAGE :-

\* Click the marks → Sheet → Formula → Average

$$^{11} = \text{AVERAGE}(A1:A10)$$

Name of the Experiment .....

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COUNT :-

\* Select the marks  $\rightarrow$  Formula  $\rightarrow$  Count no.

$$n = \text{COUNT}(A1:A10)^n$$

	<u>Number</u>	<u>Grade</u>	<u>Weighting Factor</u>	<u>No.*Factor</u>
Test	50	35%	0.35	10.5
Assignment	10	15%	0.15	1.5
Exam	60	60%	0.5	30
			<b>Weighted Average</b>	<b>42</b>

MAXIMUM :-

\* Select the marks  $\rightarrow$  Formula  $\rightarrow$  Maximum

$$n = \text{MAX}(A1:A10)^n$$

MINIMUM

\* Select the marks  $\rightarrow$  formula  $\rightarrow$  Minimum

$$n = \text{MIN}(A1:A10)^n$$

WEIGHTED AVERAGE :-

\* Select the Marks  $\rightarrow$  Formula

$$n = \text{SUMPRODUCT}(A1:A5, B1:B5) / \text{sum}(B1:B5)$$

## CONVERSION (m, cm)

<u>SL NO.</u>	<u>VALUE</u>	<u>Foot</u>
1	50	5000
2	30	3000
3	45	4500

TRIGONOMETRIC FUNCTION

\* Enter the degree for angle for the function convert  
degree to number :-

$$= \text{RADIANS}(\text{value} * \pi() / 180) \quad @$$

$$n = \text{RADIAN}(\text{value})^n$$

Convert unit :-

$$n = \text{Convert}(30, "cm", "m")$$

Name of the Experiment .....

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SL NO.	FUNCTION	A	FORMULA	Root
1	SQUARE	2	"=A^2"	4
2	CUBE	5	"=A^3"	125
3	SQUARE ROOT	25	"=SQRT(A)"	5

Angles for the following function :-

Spn = " = SIN("value")"
Cos = " = COS("value")"
Tan = " = TAN("value")"
Cot = " = COT("value")"
Sec = " = SEC("value")"
Cosec = " = COSEC("value")"

### EXONENTIAL FUNCTIONS :-

\* Enter the number → Calculate exponential

SQUARE = " = number^2 "

CUBE = " = number^3 "

SL NO.	FUNCTION	A	FORMULA	Root
1	SQUARE	2	"=A^2"	4
2	CUBE	5	"=A^3"	125
3	SQUARE ROOT	25	"=SQRT(A)"	5

Name of the Experiment .....

Experiment No..... Date .....

### Logical operator

Enter the marks  $\rightarrow$  formula  $\rightarrow$  value

### logical operators

" $=$ "  $\rightarrow$  equal to

" $<$ "  $\rightarrow$  not equal to

" $>$ "  $\rightarrow$  greater than

" $<$ "  $\rightarrow$  less than

" $\geq$ "  $\rightarrow$  greater than or equal to

" $\leq$ "  $\rightarrow$  less than or equal to

SL NO.	A	B	logical operator	Composition
1	25	29	$A=B$	FALSE
2	35	48	$A < B$	TRUE
3	45	20	$A > B$	TRUE
4	55	70	$A < B$	TRUE
5	65	77	$A \geq B$	FALSE
6	75	99	$A \leq B$	TRUE

28/07/2019

Logical operators (formula)  $\rightarrow$  value

A relation  $\rightarrow$  formula

$A =$	1	5	6		3	8	9
$B =$	2	6	7		5	1	4
$A+B =$	6	8	9		6	5	3
$A \cdot B =$	4	13	15				
$A \cdot B =$	7	7	11				
$A \cdot B =$	12	13	12				
$A \cdot B =$	-2	-3	-3				
$A \cdot B =$	-3	5	3				
$A \cdot B =$	0	3	6				
$A \cdot B =$	64	43	47				
$A \cdot B =$	78	57	63				
$A \cdot B =$	112	101	113				
$A \cdot B =$	25	125	150				
$A \cdot B =$	50	150	175				
$A \cdot B =$	150	200	225				
				Scalar =	25		

A & B are two matrix

① Addition

$$" = A + B "$$

② Transpose  
" = TRANSPOSE (A)

③ Subtraction  
" = A - B "

" = TRANSPOSE (B) "

④ Multiplication

$$" = MMULT (A, B) "$$

⑤ Adjoint Function  
" = MINVERSE (A)

⑥ Adjoint Function  
" = MINVERSE (B)"

⑦ Scalar Multiplication  
" = A \* Scalar value "

⑧ Scalar Multiplication  
" = B \* Scalar value "

### COEFFICIENT OF VARIABLE

Eqn1	1	2	-1
Eqn2	2	1	4
Eqn3	3	3	4

### COEFFICIENT OF VARIABLE

Eqn1	1	=	RHS
Eqn2	2	=	2
Eqn3	1	=	1

Variable	X	Y	Z
Value	7	-4	-2

Row 1

Row 2

Row 3

Row 4

Row 5

Row 6

Row 7

Row 8

Row 9

Row 10

Row 11

Row 12

Row 13

Row 14

Row 15

Row 16

Row 17

Row 18

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Row 246

Row 247

&lt;p

①

Name of the Experiment .....

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$A =$	3	4
	1	2

$B =$	1	5
	2	3

$2 \cdot A =$	6	8
	2	4

$Scalar \cdot A =$	2	

$J \cdot B =$	3	15
	6	9

$Scalar \cdot B =$	3	

$A =$	4	2	-1
	3	2	0

$B =$	0	1
	2	3
	7	4

② Problem  
 $A = \begin{bmatrix} 3 & 4 \\ 1 & 2 \end{bmatrix}$        $B = \begin{bmatrix} 1 & 5 \\ 2 & 3 \end{bmatrix}$  find  $2A - 3B$  ?

$$3B = "3 \cdot B"$$

$$2A = "2 \cdot A"$$

$$2A - 3B =$$

$$A = \begin{bmatrix} 4 & 2 & -1 \\ 3 & 2 & 0 \end{bmatrix} \quad B = \begin{bmatrix} 0 & 1 \\ 2 & 3 \\ 7 & 4 \end{bmatrix}$$

$$\text{find } A^*B \text{ & } B^*A$$

By using matrix multiplication

$$A^*B = " = \text{MMULT}(A, B)"$$

$$B^*A = " = \text{MMULT}(B, A)"$$

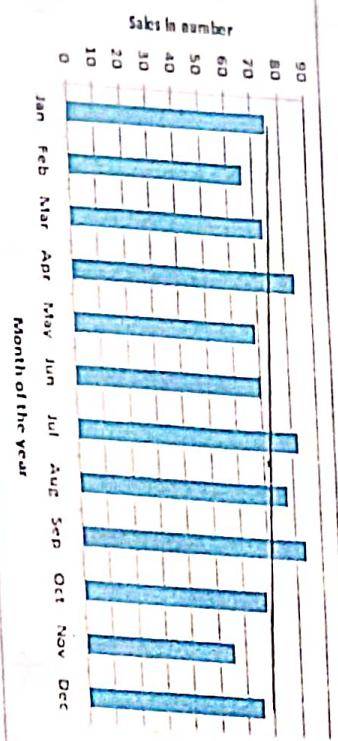
~~Ans~~

$A \cdot B =$	-3	6
	4	9

$B \cdot A =$	3	2	0
	17	10	-2
	40	22	-7

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① Trend line

Plot a graph of sales in a year & show the Trendline

Select the table → column chart → Trendline → linear  
Trendline

Sl No.	Month	Sale
1	Jan	75
2	Feb	66
3	Mar	73
4	Apr	84
5	May	69
6	Jun	70
7	Jul	83
8	Aug	78
9	Sep	84
10	Oct	69
11	Nov	56
12	Dec	66

Name of the Experiment .....  
Experiment No. .... Date .....

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X	Y
1	1.25
2	2.3
3	4.6
4	5.8
5	6.2
6	7.9
7	10.5
8	12.6
9	15.8
10	18.6
11	19.5
12	23.2

③ Slope & Intercept

Select cell → enter function → select y axis → select x axis

$$\text{Slope} = " = \text{slope}(y, x)"$$

y = y-axis value  
x = x-axis value

$$\text{Intercept} = " = \text{intercept}(y, x)"$$

Slope	1.979195804
Intercept	-2.1772723

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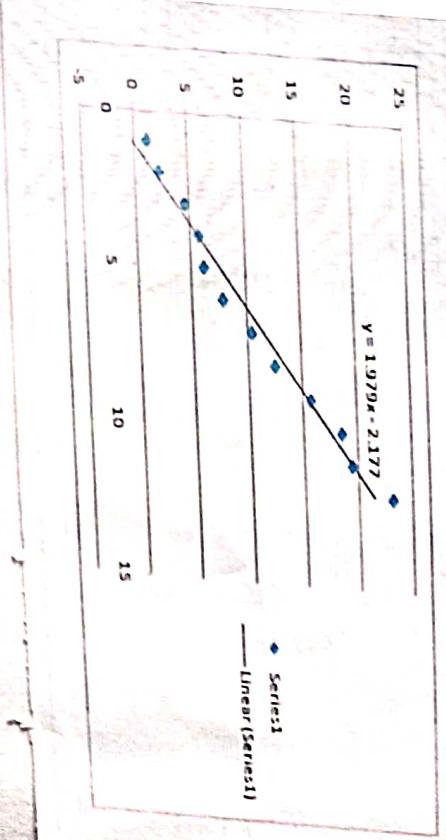
### Method @

### Graphical Method

Select the value. → Select Scatter graph → linear trendline

X Y

X	Y
1	1.25
2	2.3
3	4.6
4	5.8
5	6.2
6	7.9
7	10.5
8	12.6
9	15.8
10	18.6
11	19.5
12	23.2



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Temperature	Density	Dynamic Viscosity	Kinematic Viscosity	Specific Heat Capacity	Thermal Conductivity	Prandtl Number
-20	1.3958	1.6222	1.1622	1.0054	0.02251	0.72467
-15	1.3687	1.6478	1.2039	1.0054	0.0229	0.72337
-10	1.3426	1.6731	1.2462	1.0055	0.0233	0.72212
-5	1.3175	1.6982	1.289	1.0055	0.02369	0.72092
0	1.2933	1.7231	1.3324	1.0056	0.02407	0.71977
5	1.2699	1.7478	1.3763	1.0057	0.02446	0.71866
10	1.2474	1.7722	1.4207	1.0058	0.02484	0.71759
15	1.2257	1.7965	1.4657	1.0059	0.02522	0.71657
20	1.2047	1.8205	1.5111	1.0061	0.0256	0.71559
25	1.1845	1.8444	1.5571	1.0063	0.02597	0.71465
30	1.1649	1.868	1.6036	1.0065	0.02634	0.71375
35	1.1459	1.8915	1.6507	1.0067	0.02671	0.71289
40	1.1275	1.9148	1.6982	1.0069	0.02708	0.71207

#### ④ Interpolation and Forecast

(Forecast)  
Select the cell → function → select finding → select value

selecting value → select series value  
(at Temperature)

Note :- finding value  
→ Out of the given value we can select the whole column.

function :-  
 $y = \text{FORECAST}(x, y, z)$

$x = \text{finding value}$

Temperature	Density	Dynamic Viscosity	Kinematic Viscosity	Specific Heat Capacity	Thermal Conductivity	Prandtl Number
2	1.28394	1.73298	1.34996	1.00564	0.02423	0.71933
23	1.19258	1.83484	1.5387	1.00622	0.02582	0.71503
37	1.13854	1.90082	1.6697	1.00678	0.02686	0.71256

Temperature	Density	Dynamic Viscosity	Kinematic Viscosity	Specific Heat Capacity	Thermal Conductivity	Prandtl Number
-25	1.40891538	1.60016923	1.11167308	1.00507692	0.022157308	0.72523
45	1.09699231	1.94138462	1.73711154	1.005834615	0.027487308	0.710557692
60	1.03015165	2.0145022	1.87113407	1.007215385	0.028629451	0.707413626

line slope	1.9791958	-2.177272727	intercept
slope std error	0.10162571	0.747944975	intercept std error
R squared	0.97431215	1.215266741	std error
F statistic	379.289077	10	Dof
ss for regression	560.161892	14.76873252	ss for residuals

## Least Squares Method

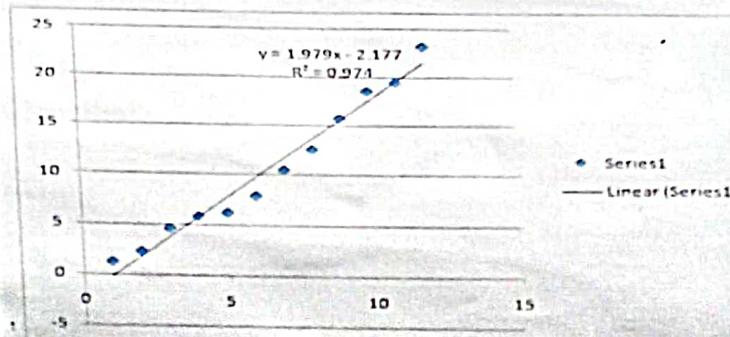
### (5) Least function

Least function calculate the statistics for a line by using Squares method to calculate a straight line that best fits the given data and then returns an array that describe the line

```
n = least (yaxis, x-axis, true, true)
```

X	Y
1	1.25
2	2.3
3	4.6
4	5.8
5	6.2
6	7.9
7	10.5
8	12.6
9	15.8
10	18.6
11	19.5
12	23.2

SUMMARY OUTPUT						
Regression Statistics						
Multiple R	0.987579079					
R Square	0.975312438					
Adjusted R Square	0.972569376					
Standard Error	1.144790572					
Observations	11					
ANOVA						
	df	SS	MS	F	Significance F	
Regression	1	465.9723636	465.9723636	355.5560488	1.53E-08	
Residual	9	11.79490909	1.310545455			
Total	10	477.7672727				
Coefficients						
		Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-2.86181818	0.838408567	-3.413393295	0.0077081	-4.758430128	-0.965206236
1	2.058181818	0.109151498	18.619391	1.53E-08	2.811263974	1.811263974

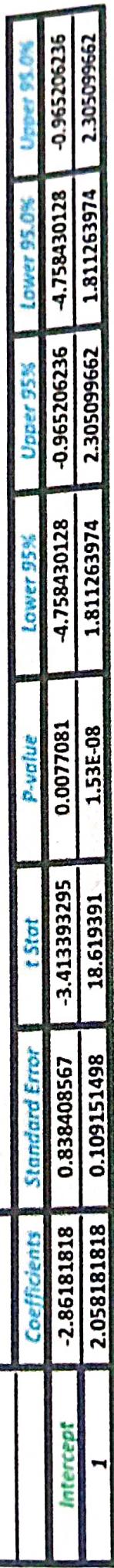


### Graphical Representation

Data → Scatter chart → Trendline → Linear Trendline  
→ Display eq. on chart → Display R Square value

	X	Y
1	1	1.25
2	2	3.3
3	3	4.6
4	4	5.8
5	5	6.2
6	6	7.9
7	7	10.5
8	8	12.6
9	9	15.8
10	10	18.6
11	11	19.5
12	12	23.2

SUMMARY OUTPUT					
<b>Regression Statistics</b>					
Multiple R	0.987579079				
R Square	0.975312438				
Adjusted R Square	0.972569376				
Standard Error	1.144790572				
Observations	11				
<b>ANOVA</b>					
	df	SS	MS	F	Significance F
Regression	1	465.9723636	465.9723636	355.5560488	1.53E-08
Residual	9	11.79490909	1.310545455		
Total	10	477.7672727			
<b>Coefficients</b>					
	Standard Error	t Stat	p-value	Lower 95%	Upper 95%
Intercept	0.838408567	-3.413393295	0.0077081	-4.758430128	-0.965206236
1	2.058181818	0.109151498	18.619391	1.53E-08	1.811263974
				2.305099662	2.305099662



# Microsoft Excel



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VBA → Visual Basic For Applications

How to add Developer opt.

- ① main menu → popular → developer → ok.
- ② main menu → customize → developer - ok.

How to start.

open developer → insert → module.

```
Ex:- Sub Front_name()
    MsgBox "Kiran"
EndSub.
```

O/P

Input → out put  
40 → "Pass"

25 → "Fail"

- ① write a VBA program to display the result as passed or failed using "If statement"
- Programme :-
- ```
Sub If_statement()
    If range("A1").Value >= 35 Then range("A1").Value = "Pass"
    EndSub
```
- O/P = Pass

(Q)

```
Sub If_Statement()
    If range("A1").Value < 35 Then range("A1").Value = "Fail"
    EndSub
```

2. Write VBA Programme to display the result on the following grades using If-else statement

Programme

```
Sub If_else_Statement()
Dim x As Integer
```

```
If x = 2 To 12
```

```
If Cells(x, 3).Value >= 35 Then
```

```
Cells(x, 4).Value = "Pass"
```

```
Else
```

```
Cells(x, 4).Value = "Fail"
```

```
End If
```

```
Next x.
```

Example :- Positive & Negative numbers

```
Sub If_else_Statement()
```

```
Dim x As Integer
```

```
If x = 3 To 10
```

```
If Cells(x, 3).Value >= 0 Then
```

```
Cells(x, 4).Value = "Positive."
```

```
Else
```

```
Cells(x, 4).Value = "Negative"
```

```
End If
```

```
Next x
```

| Sl No | Name | Marks | Result |
|-------|------|-------|--------|
| 1     | A    | 35    | Pass   |
| 2     | B    | 50    | Pass   |
| 3     | C    | 25    | Fail   |
| 4     | D    | 96    | Pass   |
| 5     | E    | 12    | Fail   |
| 6     | F    | 63    | Pass   |
| 7     | G    | 40    | Pass   |
| 8     | H    | 28    | Fail   |
| 9     | I    | 77    | Pass   |
| 10    | J    | 34    | Fail   |

| Sl No | Name | Marks | Result |
|-------|------|-------|--------|
| 1     | A    | 35    | Pass   |
| 2     | B    | 50    | Pass   |
| 3     | C    | 25    | Fail   |
| 4     | D    | 96    | Pass   |
| 5     | E    | 12    | Fail   |
| 6     | F    | 63    | Pass   |
| 7     | G    | 40    | Pass   |
| 8     | H    | 28    | Fail   |
| 9     | I    | 77    | Pass   |
| 10    | J    | 34    | Fail   |

For Next Structure

Write a VBA programme by using for next structure for squaring, cubing & any higher power of variable as shown in table

Programme:

| No. | $x^x$ | $x^{x*x}$ |
|-----|-------|-----------|
| 1   | 1     | 1         |
| 2   | 4     | 8         |
| 3   | 9     | 27        |
| 4   | 16    | 64        |
| 5   | 25    | 125       |
| 6   | 36    | 216       |
| 7   | 49    | 343       |
| 8   | 64    | 512       |
| 9   | 81    | 729       |
| 10  | 100   | 1000      |

Output  
No. 100  
Value (100) 100  
Value (100) 10000  
Value (100) 100000000

### Microsoft Excel

Enter Month Number

OK  
Cancel

12



### Microsoft Excel

Month is February

OK



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### Case Structure

① Write VBA Programme to display the month using number code by select case structure

### Programme :-

Sub select\_case\_structure ()

Dim var As Integer

Var = InputBox("Enter month number")

For var = 1 To 12

Select case var

Case 1 : MsgBox "month Is January "

Case 2 : MsgBox "month Is February "

Case 3 : MsgBox "month Is March "

Case 4 : MsgBox "month Is April "

Case 5 : MsgBox "month Is May "

Case 6 : MsgBox "month Is June "

Case 7 : MsgBox "month Is July "

Case 8 : MsgBox "month Is August "

Case 9 : MsgBox "month Is September "

Case 10 : MsgBox "month Is October "

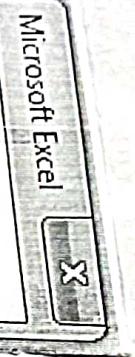
Case 11 : MsgBox "month Is November "

Case 12 : MsgBox "month Is December "

End Select

Next var

End Sub

Output:

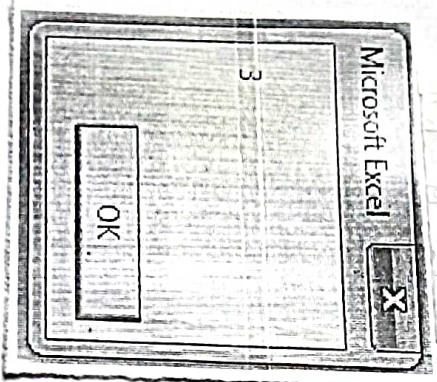
## Output

## Programme:-

```

Sub Iter_Each_Next_Statement()
Dim cell As Integer
For Each x In Range ("A1:A10")
    MsgBox x.value
Next x
End Sub

```



## Microsoft Excel

## Input :-

|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| Number | Solution |
|--------|----------|
| 20     | 40       |
| 35     | 55       |
| 40     | 60       |
| 60     | 80       |

Programme :-

```

Sub do_whileLoop()
Dim x As Integer
x=2
Do while Cells(x,1).Value <> ""
Cells(x,2).Value = Cells(x,1).Value + 20
x = x+1
Loop
End Sub

```

Name of the Experiment .....

Experiment No.....

Date .....

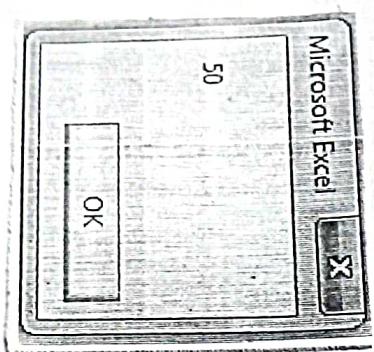
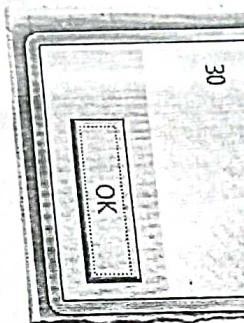
Page No.

P.A. Akola

### 7. 1D Array

Write a VBA Programme for 1D Array

#### Programme

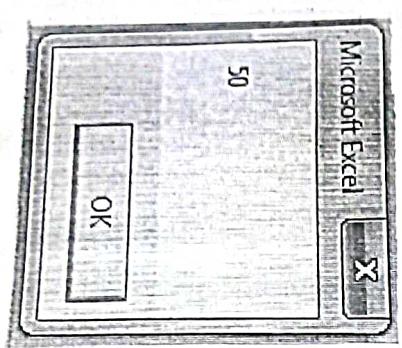
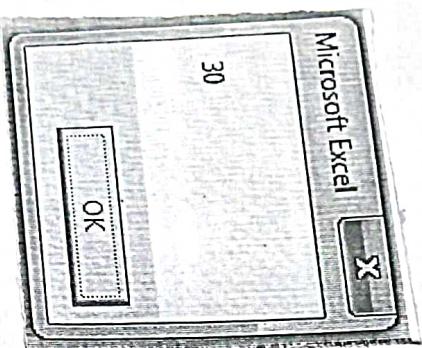


Input:-

| Monks |
|-------|
| 30    |
| 40    |
| 50    |
| 60    |

Input:

|    |    |    |
|----|----|----|
| 30 | 40 | 50 |
| 20 | 50 | 40 |
| 10 | 20 | 30 |

Output:**2D Array**

Write VBA programme for 2D array

**Programme**

```
Sub store_2D_array
Dim A(3, 3) As Integer
A(1, 1) = 30
A(1, 2) = 20
A(1, 3) = 10
```

```
A(2, 1) = 40
A(2, 2) = 50
A(2, 3) = 20
```

```
A(3, 1) = 50
A(3, 2) = 40
A(3, 3) = 30
```

30

OK

For i = 1 To 3

For j = 1 To 3

MsgBox A(i, j)

Next

Next

OK

50

Input:

| X  | Y  | X+Y | X*Y | X/Y  |
|----|----|-----|-----|------|
| 20 | 40 | 60  | 80  | 0.5  |
| 30 | 50 | 80  | 150 | 0.6  |
| 40 | 60 | 100 | 240 | 0.66 |

Output:

| X  | Y  | X+Y | X*Y |
|----|----|-----|-----|
| 20 | 40 | 60  | 80  |
| 30 | 50 | 80  | 150 |
| 40 | 60 | 100 | 240 |

**Experiment - 8**

Colour the active cell using Recording a macro

Developer → Record macro opn → macro name  
(any name)

→ key → Description  
(any alphabet)

- ① Retrieve the value of addition, multiplication & division of two numbers by using recording a macro in Excel