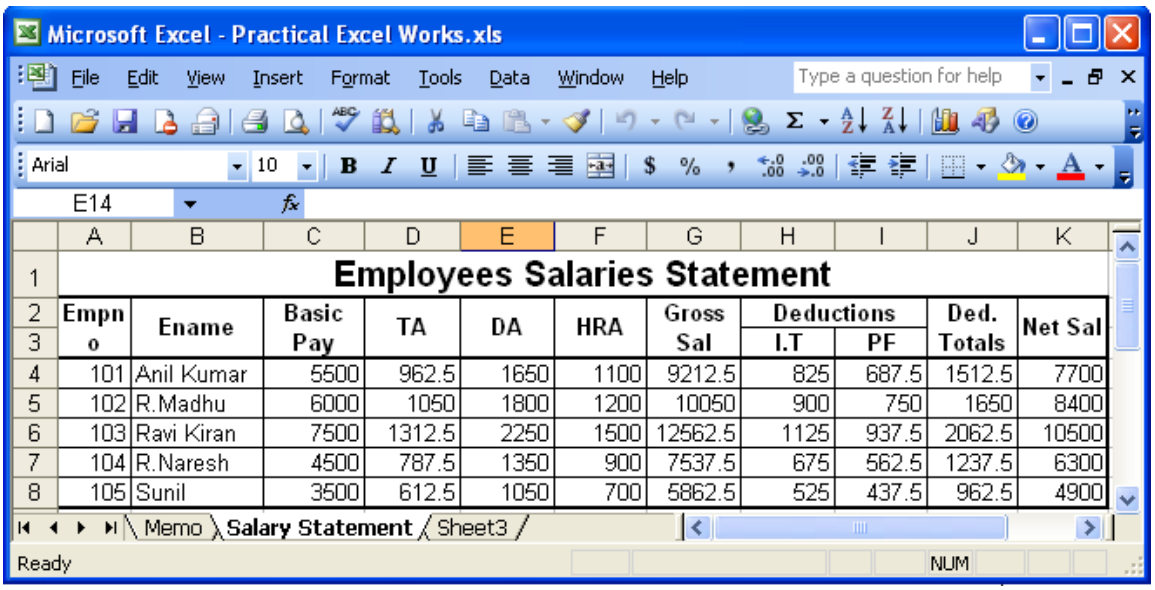
EXCEL PROGRAMS

1. Create worksheet with following fields Empno, Ename, Basic Pay(BP), Travelling Allowance(TA), Dearness Allowance(DA), House Rent Allowance(HRA), Income Tax(IT),Provident Fund(PF), Net Pay(NP)
   Given: DA= 30% of BP, HRA=20% of BP, TA=17.5% of BP, IT=15% of BP, PF=12.5% of BP



Employees Salaries Statement

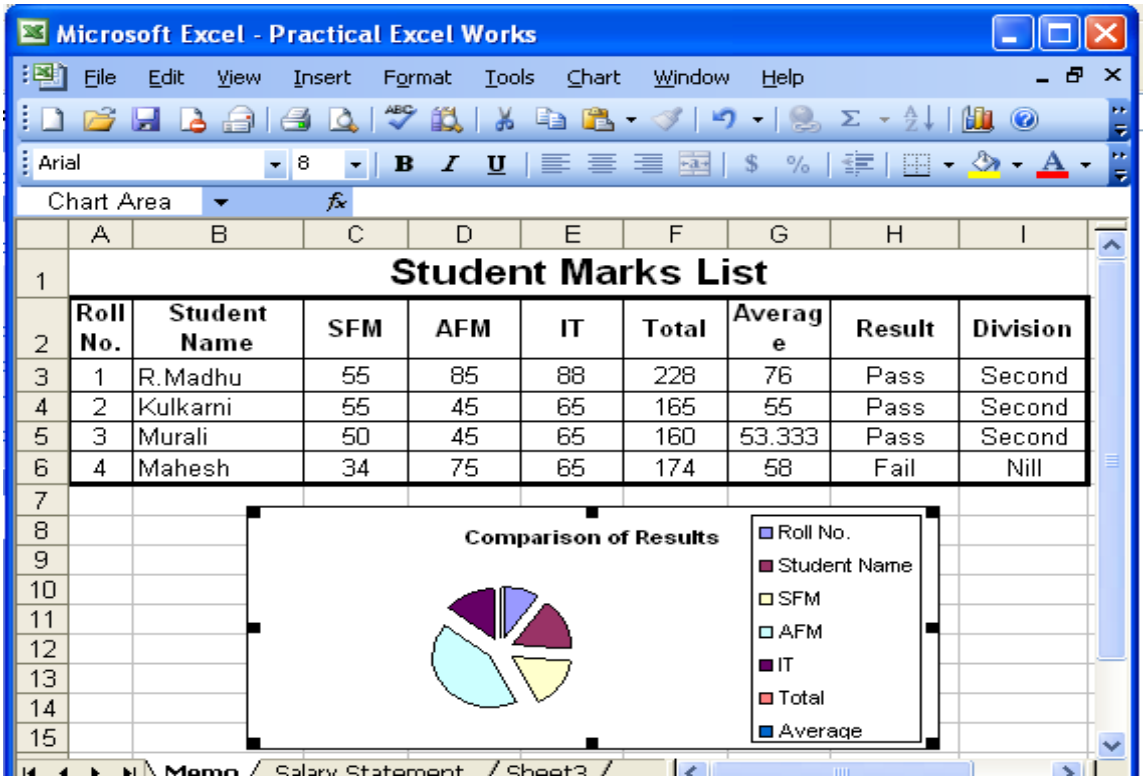
Empno	Ename	Basic Pay	TA	DA	HRA	Gross Sal	Deductions		Ded. Totals	Net Sal
							I.T	PF		
101	Anil Kumar	5500	962.5	1650	1100	9212.5	825	687.5	1512.5	7700
102	R.Madhu	6000	1050	1800	1200	10050	900	750	1650	8400
103	Ravi Kiran	7500	1312.5	2250	1500	12562.5	1125	937.5	2062.5	10500
104	R.Naresh	4500	787.5	1350	900	7537.5	675	562.5	1237.5	6300
105	Sunil	3500	612.5	1050	700	5862.5	525	437.5	962.5	4900

Steps:-

1. Create an Excel Worksheet for an employee pay roll system.
2. Enter the details of Employee as given and calculate the DA, TA, HRA, IT, PF as a percentage on the basis of Basic Pay.
3. Calculate the Net Pay by using the formulae

   Gross Pay= DA+TA+HRA+BP
   Deductions=IT+PF
   Net Pay= Gross Pay-Deductions

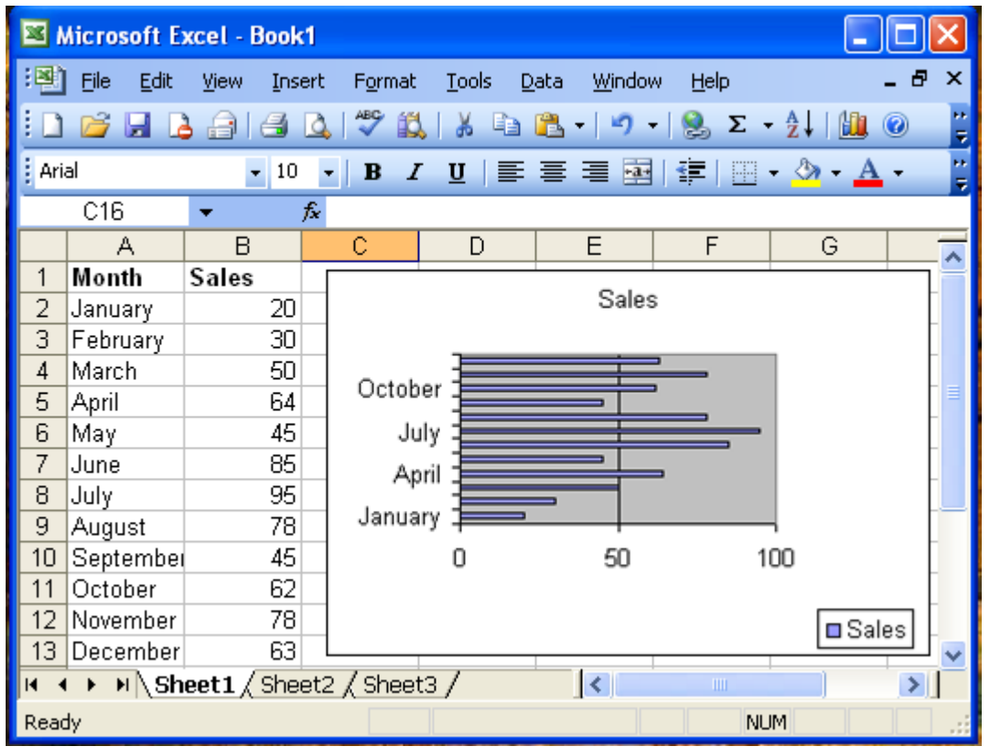
2. Create an Excel Worksheet with fields as Roll No, Name, Marks and percentage.



Steps:-

1. Create an Excel Worksheet by inserting field names
2. Calculate total marks, Averages, Results and Divisions.(By using Mathematical and Logical Functions)
3. Represent the Data by inserting the Pie Chart.

3. Create an Excel Worksheet for the monthly sales of a product and alsorepresent the data by using bar chart?

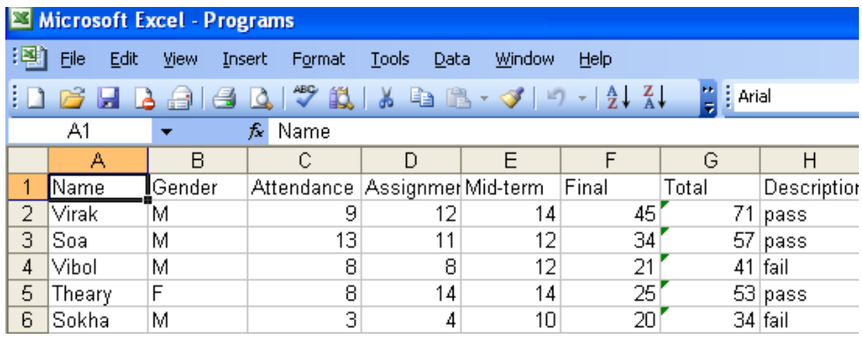


	A	B
1	**Month**	**Sales**
2	January	20
3	February	30
4	March	50
5	April	64
6	May	45
7	June	85
8	July	95
9	August	78
10	September	45
11	October	62
12	November	78
13	December	63

Steps:

1. Create an Excel sheet with the given Data
2. Assuming sales of a product for different months can be represented by using barchart

4. Create an Excel Sheet with name, gender, attendance, assignment, midterm and final grades of five students. Find the total of the assessment marks. Students who pass need to have an attendance greater than 8 else he fails even if he has a total greater than 50



	A	B	C	D	E	F	G	H
1	Name	Gender	Attendance	Assignmer	Mid-term	Final	Total	Descriptior
2	Virak	M	9	12	14	45	71	pass
3	Soa	M	13	11	12	34	57	pass
4	Vibol	M	8	8	12	21	41	fail
5	Theary	F	8	14	14	25	53	pass
6	Sokha	M	3	4	10	20	34	fail

Steps:

1. Create a column called description
2. In the first student's description cell type the IF function using thetotal cell's no to check pass or fail
3. For e.g., in the above fig, in Virak's description cell, type
   =IF(AND(C12>8,G12>=50),"pass","fail")
4. Drag the results to all the remaining cells which need computation

5. Create an Excel Sheet with name, gender, attendance, assignment, midterm and final grades of students. Find the total of the assessment marks. Students who passed without considering attendance as criteria for passing, calculate the grades of the students as per the grade rule table given below:

Marks Range	**Grade**
Score>=90	A
90>Total Score>=80	B
80>Total Score>=70	C
70>Total Score>=60	D
60>Total Score>=50	E
Total Score < 50	F

If all the grades (A to F) are not displayed in your grade column add some student entries that have marks falling in the appropriate grades and verify your formula.

Solution:

Name	Gender	Attendance	Assignmer	Mid-term	Final	Total	Descriptior	Grade
Virak	M	9	12	14	45	71	pass	C
Soa	M	13	11	12	34	57	pass	E
Vibol	M	8	8	12	21	41	fail	F
Theary	F	8	14	14	25	53	pass	E
Sokha	M	3	4	10	20	34	fail	F
Added1	M	10	15	15	50	80	pass	B
Added2	F	12	20	20	50	90	pass	A
Added3	F	13	15	15	35	65	pass	D

Steps:

1. Add a column called grade
2. This problem needs to be solved using if function within if function as follows:

For example if Virak's total cell is G22 then the function is formulated as
=IF(G22>=90,"A",IF(AND(G22>=80,G22<90),"B",IF(AND(G22>=70, G22<80),"C",IF(AND(G22>=60,G22<70),"D",IF(AND(G22>=50,G22<60),"E","F")))))

3. The above function is written as an outer IF function which has one grade in its true part if the condition is satisfied and the next grade rule is written in the false part of the previous grade rule and the writing continues for all the grades.

6. The following worksheet contains Names & Sale for 10 salesmen.

Calculate their bonus as per the following :

Sale	**Bonus**
0-30000	0
30000-40000	3000
40000-50000	4000
50000-60000	5000
60000-70000	6000
70000-80000	7000
80000 & above	8000

	A	B	C	D			H	I
1	NAME	SALE	BONUS				0	0
2	Deep	30000					**30000**	3000
3	Jayesh	40000					**40000**	4000
4	Yash	45000					**50000**	5000
5	Sara	48000					**60000**	6000
6	Gita	55000					**70000**	7000
7	Jinal	32000					**80000**	8000
8	Kavita	66000						
9	Minal	23000						
10	Naresh	43000						
11	Rima	37000						

Answer:

Enter headings & data as shown in

columns A to FTo calculate BONUS using

VLOOKUP

1. Enter Sale & Bonus in columns H & I as follows

H	I
0	0
30000	3000
40000	4000
50000	5000
60000	6000
70000	7000
80000	8000

2. At C2 enter =VLOOKUP(B2, $H$1:$I$7 , 2)
3. BONUS is displayed for the first salesman. Drag the formula up to C11 to getbonus for all the salesmen.

7. You are given two tables Element Table and Element Table 2 . Fetch themelting points of the elements from the second table and fill in the first table.

	A	B	C	D	E	F	G
1	ELEMENT TABLE					ELEMENT TABLE 2	
2	Atomic Mass	Density	Name	Melting Pt.		ELEMENT	MELTING Pt.
3	1.0079	0.09	Hydrogen			Helium	-272
4	4.0026	0.18	Helium			Hydrogen	-259
5	6.941	0.53	Lithium			Neon	-249
6	9.0122	1.85	Beryllium			Fluorine	-220
7	10.811	2.34	Boron			Oxygen	-218
8	12.0107	2.26	Carbon			Nitrogen	-210
9	14.0067	1.25	Nitrogen			Sodium	98
10	15.9994	1.43	Oxygen			Lithium	180
11	18.9984	1.7	Fluorine			Magnesium	639
12	20.1797	0.9	Neon			Beryllium	1278
13	22.9897	0.97	Sodium			Boron	2300
14	24.305	1.74	Magnesium			Carbon	3500

Steps:

1. First element in the first table is in C3
2. We write the VLOOKUP formula for the first element in the firsttable in D3
3. The table from which we should fetch the values is F3:G14, we needabsolute referencing so it is $F$3:$G$14
4. We need the second column values form table 2; so the index is 2
5. The formula at D3 in table 1 is

=VLOOKUP(C3,$F$3:$G$14,2,FALSE)

6. Drag to get the melting points for other elements.