

Lab Cycle 3 Exercises

A) The marks obtained by a student in 5 different subjects are input through the keyboard. The student gets a division as per the following rules:

Percentage above or equal to 60 - First division

Percentage between 50 and 59 - Second division

Percentage between 40 and 49 - Third division

Percentage less than 40 - Fail

Write a program to calculate the division obtained by the student (3M)

B) Write a program to read employee name, gender, years of service and qualification and calculate the salary as per the following table (3M)

Gender	Years of Service	Qualifications	Salary
Male	≥ 10	Post-Graduate	15000
	≥ 10	Graduate	10000
	< 10	Post-Graduate	10000
	< 10	Graduate	7000
Female	≥ 10	Post-Graduate	12000
	≥ 10	Graduate	9000
	< 10	Post-Graduate	10000
	< 10	Graduate	6000

C) If cost price and selling price of an item is input through the keyboard, write a program to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss he incurred(3M)

D) If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is isosceles, equilateral, scalene or right angled triangle(3M)

E) Write a program to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered (4M)

F) Write a program to display the following output (3M)

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

G) Write a program to display the following output (3M)

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

H) Write a program to display the following output (3M)

```
*
* *
* * *
* * * *
* * * * *
```