

Practical Sheet – I

- 1 Write a program to add, multiply and divide two integers and float numbers.
- 2 Write a program to check whether the entered number is even or odd.
- 3 Write a program to tell if a year is a leap year Or Not.
- 4 Write a program to determine the maximum of 3 numbers.
- 5 Write a program to accept number of days and print year, month and remaining days.
- 6 Write a program to swap the values of two variables.
- 7 Admission to a professional course is subject to the following conditions :
 - (a) marks in mathematics ≥ 60
 - (b) marks in physics ≥ 50
 - (c) marks in chemistry ≥ 40
 - (d) total in all three subjects ≥ 200or
total in mathematics and physics ≥ 150
given the marks in the three subjects , write a program to process the applications to list an eligible candidate.
- 8 Write a program that reads the percentage obtained by the students and determines and prints the class obtained by the student as per the following rules

Percentage	Class
0 - 39	Fail
40 - 59	Second class
60 - 79	First class
80 - 100	Distinction
- 9 Write a program to calculate the average of a set of n given numbers.
- 10 Write a program to calculate the area of circle/rectangle/triangle.
C indicate circle ,
R indicate rectangle,
T indicate triangle.
use symbolic constant to define the value of pie.
- 11 Write a program that accept basic, HRA, and DA from the user and calculate total salary.

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12 Generate the following pattern:

1.	<pre> *</pre>
2.	<pre> * * * * * * * * * * * * * * *</pre>
3.	<pre> * * * * * * * * * * * * * * *</pre>
4.	<pre> * * * * * * * * * * * * * * * *</pre>
5.	<pre> * * * * * * * * * * * * * * *</pre>
6	<pre> 5 54 543 5432 54321</pre>

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7	1 22 333 4444 55555
8	1 12 123 1234 12345
9	1 232 34543 4567654 567898765 67890109876 7890123210987 890123454321098 90123456765432109
10	12345 1234 123 12 1

13. Write a program to find maximum element from 1-Dimensional array.
14. Write a program to sort given array in ascending order.
15. Given the two 1-D arrays A and B, which are sorted in ascending order. Write a program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order.
16. Write a program to add two matrices.

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17. Write a program that reads in two matrices and multiply them. Display the resultant matrix.
18. Write a program to sort given string array in ascending order.
19. Write a program that will read a text and count all occurrences of a particular word.
20. Write a program that will read a string and rewrite it in the alphabetical order
21. Write a program that appends the one string to another string.
22. Write a program that finds a given word in a string.
23. Write a program that search an item from array of string.
24. Write a program to read a matrix and determine the following :
 - (1) wheather the given matrix is upper triangular or not
 - (2) wheather the given matrix is lower triangular or not
 - (3) wheather the given matrix is digonal matrix or not