

ES202

List of Experiments

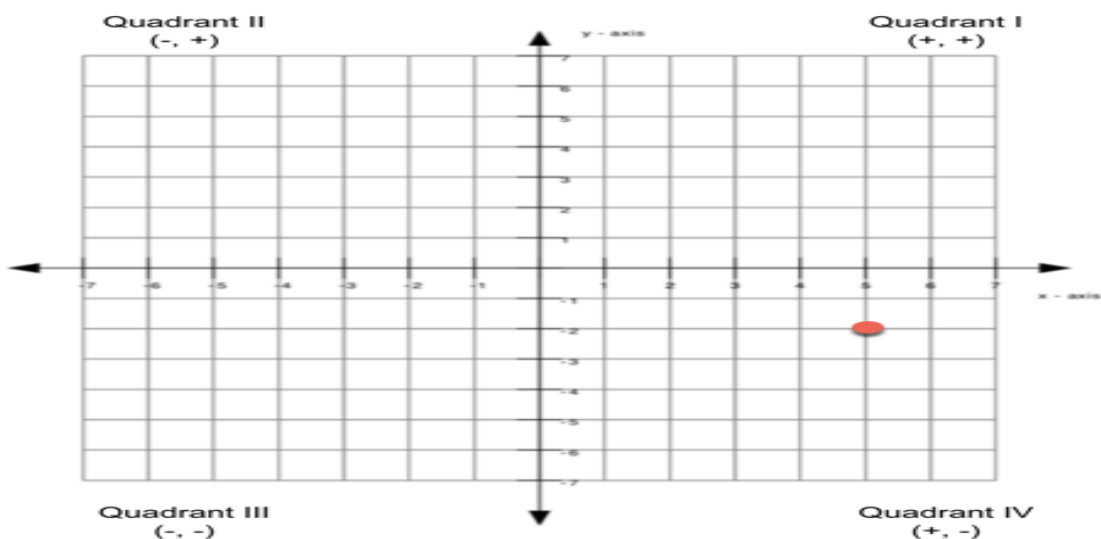
- Write a C program to add two numbers
 - Write a C program to add three numbers
- Write a C program to find area of circle
 - Write a C program to calculate simple interest
- Write a C program to print a block F using hash (#), where the F has a height of six characters and width of five and four characters
- Write a C program that accepts two item's weight (floating points' values) and number of purchase (floating points' values) and calculate the average value of the items
- Write a C program to swap two variables using a third variable
 - Write a C program to swap two variables without using a third variable
- Write a C program to convert a given integer (in seconds) to hours, minutes, and seconds.
 - Write a C program to convert specified days into years, weeks, and days.

Note: Ignore leap year.

Test Data :

Number of days : 1329-3 years,33 weeks and 3 days

- Write a C program to check whether a number is even or odd.
- Write a C program to check whether a given year is Leap year or not
 - Write a C program to check whether a triangle is Equilateral, scalene, or isosceles
 - Write a C program to check whether a triangle is right angles, obtuse, acute triangle
 - Write a C program to convert temperature from Fahrenheit to Celsius and Celsius to Fahrenheit (User must provide the choice of type of temperature)
 - Write a C program to check whether a character is an alphabet, digit
 - Write a C program a program to check whether an alphabet is a vowel or consonant
 - Write a C program to find smallest of two numbers
 - Write a C program to find largest of three numbers
 - Write a program in C to implement Simple Calculator.
 - WAP to calculate the root of a Quadratic Equation
 - WAP to to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.



15. Write a program to find gross salary of employee if DA is 40% of basic Salary and HRA is 20% of basic salary. Basic salary will be entered as input by keyboard.
16. Write a program in C to calculate and print the Electricity bill of a given customer. The customer id and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer.

upto 199-----1.20

200-500-----1.80

Above 500-----2.00

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

17. A library charges a fine for every book returned late. For first 5 days the fine is 50 paisa, for 6-10 days, fine is one rupee and above 10 days, fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. Write a program to accept the number of days the member is late to return the book and display the fine or appropriate message.
18. Write a program to find the factorial of any number.
19. Write a program to print Fibonacci sequence
0 1 1 2 3 5 8 13..... N terms and prints the sum of sequence.
20. Write a program in C to accept an integer numbers and find sum of digits.
21. Write a program in C to accept an integer numbers and find reverse of this number and check this number for palindrome
22. Write a program in C to accept an integer numbers and to check a number is Armstrong or not
23. Write a program in C to accept an integer numbers and to check a number is Perfect or not
24. Write a program to find the sum of following series:
 $S = 2+4+6+8+\dots+N$ terms.
25. Write a program to check a number whether it is prime number or not.
26. Write a program to find the sum of following series:
 $1 - 1/2 + 1/3 - 1/4 + 1/5 - \dots$ up to n terms.
27. Write a program to find the sum of following series:
 $1! + 2! + 3! + 4! + \dots + n!$
28. Write a program to find the sum of following series:
 $S = -1^3 + 3^3 - 5^3 + 7^3 - 9^3 + 11^3 - \dots$ N terms.
29. Write a program to find the sum of following series:
 $S = 1/1! + 2/2! + 3/3! + \dots$ 7 terms.
30. Write a program to convert binary number to decimal number.
31. Write a program to find the sum of following series:
 $S = 1^4 + 3^4 + 5^4 + 7^4 + \dots$ 100 terms
32. Write a program in C to print the following pattern:

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

33. Write a program in C to print the following pattern:

```
1           2           3
1           2           3
1           2           3
```

34. Write a program in C to print the following pattern:

```

1      1      1
2      2      2
3      3      3

```

35. Write a program in C to print the following pattern:

```

3      2      1
3      2      1
3      2      1

```

36. Write a program in C to print the following pattern:

```

3      3      3
2      2      2
1      1      1

```

37. Write a program in C to print the following pattern:

```

*
*      *
*      *      *

```

38. Write a program in C to print the following pattern:

```

1
1      2
1      2      3

```

39. Write a program in C to print the following pattern:

```

1
2      2
3      3      3

```

40. Write a program in C to print the following pattern:

```

3
3      2
3      2      1

```

41. Write a program in C to print the following pattern:

```

3
2      2
1      1      1

```

42. Write a program in C to print the following pattern:

```

          *
        *      *      *
      *      *      *      *
    *      *      *      *      *

```

43. Write a program in C to print the following pattern:

```

          1
        1      2      1
      1      2      3      2      1
    1      2      3      4      3      2      1

```

44. Write a program in C to print the following pattern:

```

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

```

45. Write a program in C to print the following pattern:

```

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

```

46. Write a program to print all prime numbers \leq a given number.

47. Write a program to convert Decimal no to Binary No.

48. Write a program to find product, sum, average, max and min from a list of n numbers.

49. Write a program in C to display the index of smallest and largest element in 10 integers

50. Write a program in C to display the index of smallest and largest element in 3 X 4 matrix of integers.

51. Write a program in C that accepts N*N matrix as input and print transpose of this matrix

52. Write a program to accept two matrices of some order. (Order must be given by user) find out the sum of these matrices and print the sum of matrices.

53. Write a program to find out the product/Multiplication of two matrices and print the product matrix. (order of matrices must be given by user)

54. Write a program to accept two matrices of some order. (Order must be given by user) find out the subtraction of these matrices and print the sum of matrices.

55. Write a C Program to implement Simple Calculator (Addition, Subtraction, Multiplication, Division) using the concept of function

56. Write a C Program to swap two values using function

57. Write a C Program to Calculate the factorial of a number using function

58. Write a C Program to Calculate the factorial of a number using recursion

Link for Submission of Lab records on regular basis

https://forms.office.com/Pages/ResponsePage.aspx?id=dqBGjZPQbUGle4aSzeE7-KPMxbkfzdZCrnzZ5Axq_nRUMUFXTIFQSDJLOUowQ0tQMVIQWU8wNFdXTy4u

