**End Sem 1 Practical**

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**PRACTICAL 1**

WAP to find sum of first and last digit in a number by passing that number into function.

(Eg. n=7859: result = 7+9=16).

**PROGRAM CODE 1**

#include <stdio.h>

**int** answer(**int** n)

{

**int** first, end;

    end = n % 10;

    first = n;

    while (n >= 10)

    {

        n = n / 10;

    }

    first = n;

**int** sum;

    sum = first + end;

    return sum;

}

**int** main()

{

**int** n;

    printf("Enter a number = ");

    scanf("%d", &n);

    printf("Sum of first and last digit = %d", answer(n));

    return 0;

}

**OUTPUT 1**

![Graphical user interface, text

Description automatically generated]()

**Flowchart 1**

1. Enter a number (n) and pass that number into the function **“answer”.**
2. End digit is extracted using **n%10.** Eg n = 112, so n%10 = **2.**
3. To extract the first number, while loop is used to divide the number by 10 until it become less than 10, the resulting number is the first number. Eg n = 112, n/10 ->11 ; 11/10-> **1**.
4. Now the addition of first and the end digit is done by the function and returned.

**PRACTICAL 2**

WAP to read numbers until -1 is entered and display whether the number is prime or composite (use pointers).

**PROGRAM CODE 10.2**

#include <stdio.h>

**int** main()

{

**int** a = 1;

    while (a != -1)

    {

        printf("Enter number to check it = ");

        scanf("%d", &a);

        if (a != -1)

        {

**int** b, x;

**int** \*ptr1 = &a;

            b = \*ptr1 / 2;

            for (**int** i = 1; i <= b; i++)

            {

                if (\*ptr1 % i == 0)

                {

                    x = i;

                }

            }

            if (x == 1)

            {

                printf("\n%d is a prime number!\n\n", \*ptr1);

            }

            else

            {

                printf("\n%d is a composite!\n\n", \*ptr1);

            }

        }

        else

        {

            printf("\nYou have entered -1\nPROGRAM TERMINATED!!!");

            break;

        }

    }

    return 0;

}

**OUTPUT 2**

***![Text

Description automatically generated]()***