Practical File

Of

Programming in C

Course Code: CSEG1041

School of Computer Science

Submitted By:	Submitted To:
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SAP ID:590021983

Course:B.Sc(Computer Science)

Batch:2025-28

Academic Year: 2025-26

```c
/*Experiment 1: Installation, Environment setup and starting with
C language
    1. Write a program to print "Hello World"*/

    #include <stdio.h>

    int main() {
        printf("Name - Dyuti Sharma\nSAP ID - 590021983\nCourse-
BSC CS\”);

printf("\n-----------------------------------------------------
\n");
        printf("Hello world!\n");
        return 0;
```

Output:

```
Name - Dyuti Sharma
SAP ID - 590021983
Course-BSC CS
batch-B1
--------------------------------------------------
Hello world!
Program ended with exit code: 0
```

```c
 /* 2. Write a C program to print the address in multiple lines
(new line)*/

#include <stdio.h>

int main() {
    // Print address line by line
    printf("Name: Dyuti Sharma\n");
    printf("Street: 123 GMS Road\n");
    printf("City: Deheradun\n");
    printf("State: Uttarakhand\n");
    printf("Country: India\n");
    printf("PIN Code: 248001\n");

    return 0;
}
```

Output:

```
Name: Dyuti Sharma
Street: 123 GMS Road
City: Deheradun
State: Uttarakhand
Country: India
PIN Code: 248001
Program ended with exit code: 0
```

```c
/* 3. Write a program to add two numbers,take number from user*/


#include <stdio.h>
int main() {
    int num1, num2, sum;

    // Ask the user for input
    printf("Enter the first number: ");
    scanf("%d", &num1);

    printf("Enter the second number: ");
    scanf("%d", &num2);

    // Calculate the sum
    sum = num1 + num2;

    // Display the result
    printf("The sum of %d and %d is %d\n", num1, num2, sum);

    return 0;
}
```

Output:

```
Enter the first number: 1
Enter the second number: 2
The sum of 1 and 2 is 3
Program ended with exit code: 0
```

```c
 /* 4. Write a C program to perform four arithmetic operations on
two variables*/

#include <stdio.h>

int main() {
    float a, b;

    // Input two numbers
    printf("Enter the first number: ");
    scanf("%f", &a);

    printf("Enter the second number: ");
    scanf("%f", &b);

    // Perform arithmetic operations
    printf("\n--- Arithmetic Operations ---\n");
    printf("Addition: %.2f + %.2f = %.2f\n", a, b, a + b);
    printf("Subtraction: %.2f - %.2f = %.2f\n", a, b, a - b);
    printf("Multiplication: %.2f * %.2f = %.2f\n", a, b, a * b);

    // Handle division by zero
    if (b != 0)
        printf("Division: %.2f / %.2f = %.2f\n", a, b, a / b);
    else
        printf("Division: Cannot divide by zero!\n");

    return 0;
}
```

Output:

```
Enter the second number: 7

--- Arithmetic Operations ---
Addition: 5.00 + 7.00 = 12.00
Subtraction: 5.00 - 7.00 = -2.00
Multiplication: 5.00 * 7.00 = 35.00
Division: 5.00 / 7.00 = 0.71
Program ended with exit code: 0
```