Practical File
Of

Course Code: CSEG1041
School of Computer Science

Submitted By: Submitted To:
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```c
//  Created by Dyuti sharma on 15/10/25.

//4.1. WAP to enter numbers till the user wants. At the end, it should display the count of positive, negative, and Zeroes entered.


#include <stdio.h>

int main() {
 int num, posCount = 0, negCount = 0, zeroCount = 0;
 char choice;
 do {
printf("Enter a number: ");
 scanf("%d", &num);
 if (num > 0)
 posCount++;
 else if (num < 0)
 negCount++;
 else
 zeroCount++;
 printf("Do you want to enter another number? (y/n): ");
 // Consume any trailing newline characters and take user input
 while ((getchar()) != '\n');
 scanf("%c", &choice);
 } while (choice == 'y' || choice == 'Y');
 printf("\nCount of positive numbers: %d\n", posCount);
 printf("Count of negative numbers: %d\n", negCount);
 printf("Count of zeroes: %d\n", zeroCount);

 return 0;
}
```

Output:

```
Enter a number: 7
Do you want to enter another number? (y/n): 9

Count of positive numbers: 1
Count of negative numbers: 0
Count of zeroes: 0
Program ended with exit code: 0
```

```c
//  Created by Dyuti sharma on 15/10/25.

//4.2. WAP to print the multiplication table of the number entered by the user. It should be in the correct formatting. Num * 1 = Num


#include <stdio.h>

int main() {
    int num;

    printf("Enter a number: ");
    if (scanf("%d", &num) != 1) {
        printf("Invalid input. Please enter a valid integer.\n");
        return 1; // Exit if input is invalid
    }

    printf("\n------ Multiplication Table of %d ------\n", num);
    for (int i = 1; i <= 10; i++) {
        printf("%3d × %2d = %4d\n", num, i, num * i);
    }

    return 0;
}
```

Output:

```
------ Multiplication Table of 48 ------
 48 ×  1 =   48
 48 ×  2 =   96
 48 ×  3 =  144
 48 ×  4 =  192
 48 ×  5 =  240
 48 ×  6 =  288
 48 ×  7 =  336
 48 ×  8 =  384
 48 ×  9 =  432
 48 × 10 =  480
Program ended with exit code: 0
```