### PROGRAM 1: Program to calculate sum, difference, product, quotient and reminder of two numbers

```
~/C / main ± xecut operators.c
Enter num_1 = 25
Enter num_2 = 12
Sum
          = 37
Difference = 13
Product
           = 300
Quotient
           = 2
Remainder = 1
 <mark>~/C ⊅ main ± →</mark> xecut <u>operators.c</u>
Enter num_1 = 56
Enter num_2 = 4
Sum
            = 60
Difference = 52
Product
           = 224
Quotient
           = 14
Remainder = 0
     / main ±
```

## PROGRAM 2: Program to demonstrate pre and post increment operators in C

#### **PROGRAM 3:** Program to demonstrate type casting in C

```
/* Program to demonstrate type casting
/* Program to demonstrate type casting
/* 
# include <stdio.h>
int main()
{
   int x = 8574, y = 100;

   /* NOTE: this casts x to float and then does the division
   * If (float) isn't used, the result will only be 85.
   /*

float result = (float) x / y;

printf ("Result = %lf\n", result);
   return 0;
}
```

```
10:59 \_

-/c \forall main \pm \text{ xecut type casting with accuracy.c}}

Result = 85.74

-/c \forall main \pm \text{ xecut type casting.c}}

Result = 85.739998

-/c \forall main \pm \text{ main \pm }
```

## PROGRAM 4: WACP for grading marks obtained by a student using conditional statements

```
/* Program for grading marks obtained by a student
    * using conditional statements.
    */

# include <stdio.h>

int main()
{
    int student_marks = 0;

    printf ("Enter marks (out of 100): ");
    scanf ("%d", &student_marks);

if (student_marks < 0) {
        printf ("error: marks entered subceeds 0\n");
        return 0;
} else if (student_marks > 100) {
        printf ("error: marks entered exceeds 100\n");
        return 0;
}

printf ("Grade: ");
if (student_marks <= 40) {
        printf ("E\n");
} else if (student_marks > 55 && student_marks <= 55) {
        printf ("E\n");
} else if (student_marks > 70 && student_marks <= 85) {
        printf ("O\n");
} else if (student_marks > 85 && student_marks <= 95) {
        printf ("B\n");
} else if (student_marks > 95 && student_marks <= 100) {
        printf ("B\n");
} else if (student_marks > 95 && student_marks <= 100) {
        printf ("A\n");
}
return 0;
}</pre>
```

```
10:59 🖾 >_
                                     H□ 1 1 70%
 /( ) main ± xecut grading system.c
Enter marks (out of 100): 96
Grade: A
    main ± xecut grading system.c
Enter marks (out of 100): 85
 /C main ± xecut grading system.c
Enter marks (out of 100): 87
Grade: B
 /C / main ± xecut grading system.c
Enter marks (out of 100): 45
Grade: E
    main ± xecut grading system.c
Enter marks (out of 100): 40
Grade: F
    main ±
```

# **EXECUTION BASH SCRIPT (xecut):**