C Programming Assignment 1

darsh mistry

August 2025

1 addition of two numbers.

```c
#include <stdio.h>

int main() {
    int a = 5;
    int b = 7;
    int sum;

    sum = a + b;

    printf("Sum = %d", sum);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    int a = 5;
    int b = 7;
    int sum;

    sum = a + b;

    printf("Sum = %d", sum);

    return 0;
}
```

```
Sum = 12

=== Code Execution Successful ===
```

Figure 1: solution1

C Programming Assignment 1

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August 2025

1 Subtract two numbers.

```c
#include <stdio.h>

int main() {
    int a = 15;
    int b = 7;
    int result;

    result = a - b;

    printf("Subtraction = %d", result);

    return 0;
}
```

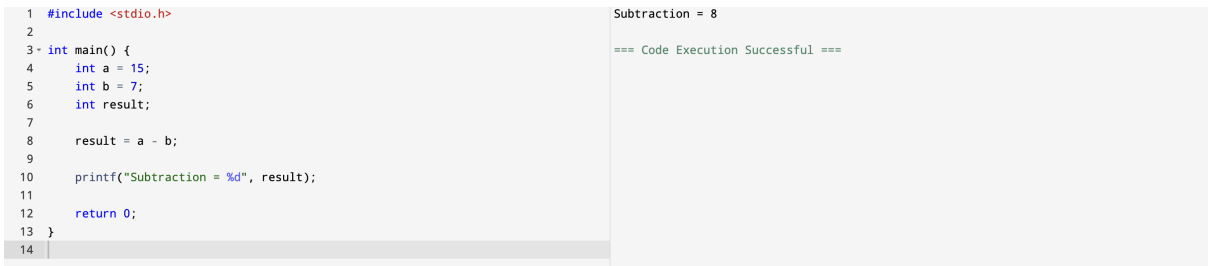

Figure 1: solution 2

C Programming Assignment 1

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1 Multiply two numbers.

```c
#include <stdio.h>

int main() {
    int a = 4;
    int b = 6;
    int product;

    product = a * b;

    printf("Product = %d", product);

    return 0;
}
```

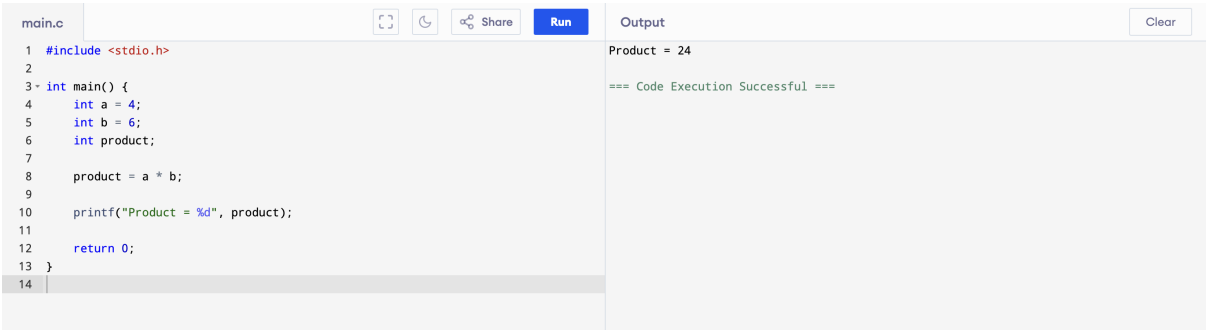

Figure 1: solution3

C Programming Assignment 1

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August 2025

1 Divide two numbers.

```c
#include <stdio.h>

int main() {
    int a = 20;
    int b = 4;
    int result;

    result = a / b;

    printf("Division = %d", result);

    return 0;
}
```

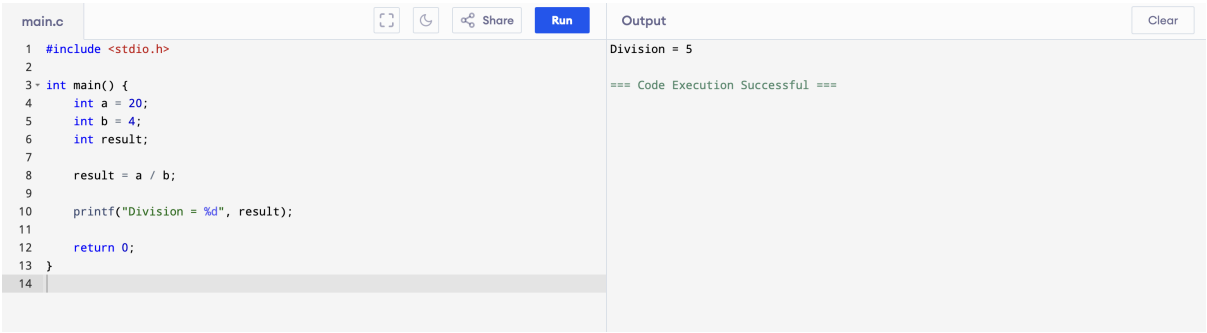

Figure 1: Enter Caption

C Programming Assignment 1

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August 2025

1 Perform all four operations.

```c
#include <stdio.h>

int main() {
    int a = 20;
    int b = 5;

    int sum, difference, product;
    float division;

    sum = a + b;
    difference = a - b;
    product = a * b;
    division = (float)a / b;

    printf("Addition = %d\n", sum);
    printf("Subtraction = %d\n", difference);
    printf("Multiplication = %d\n", product);
    printf("Division = %.2f\n", division);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    int a = 20;
    int b = 5;

    int sum, difference, product;
    float division;

    sum = a + b;
    difference = a - b;
    product = a * b;
    division = (float)a / b;

    printf("Addition = %d\n", sum);
    printf("Subtraction = %d\n", difference);
    printf("Multiplication = %d\n", product);
    printf("Division = %.2f\n", division);

    return 0;
}
```

```
Addition = 25
Subtraction = 15
Multiplication = 100
Division = 4.00


=== Code Execution Successful ===
```

Figure 1: solution5

C Programming Assignment 1

darsh mistry

August 2025

1 Convert hours into minutes.

```c
#include <stdio.h>

int main() {
    int hours;
    int minutes;

    hours = 2;
    minutes = hours * 60;

    printf("%d hours = %d minutes", hours, minutes);

    return 0;
}
```

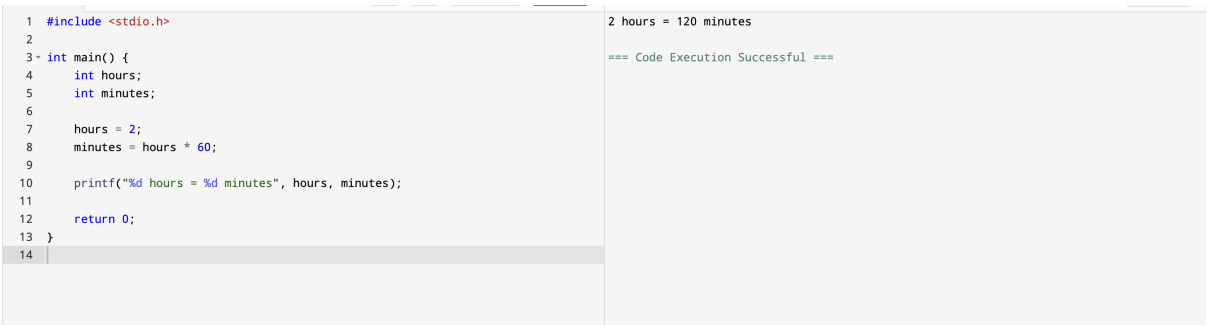

Figure 1: solution 6

C Programming Assignment 1

darsh mistry

August 2025

1 Convert minutes to hours.

```c
#include <stdio.h>

int main() {
    int minutes;
    int hours;

    minutes = 120;
    hours = minutes / 60;

    printf("%d minutes = %d hours", minutes, hours);

    return 0;
}
```

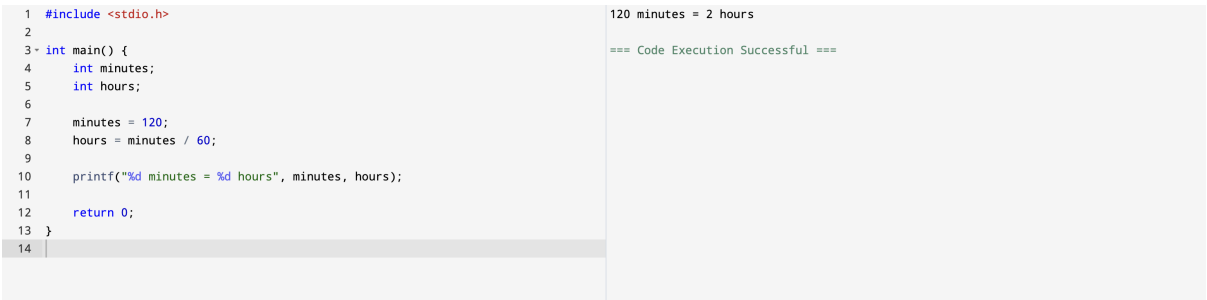

Figure 1: soltuion 7

C Programming Assignment 1

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August 2025

1 Convert dollars into Rs.

```c
#include <stdio.h>

int main() {
    float dollar, rupees;

    printf("Enter amount in Dollar: ");
    scanf("%f", &dollar);

    rupees = dollar * 48;

    printf("Amount in Rupees = %.2f\n", rupees);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float dollar, rupees;

    printf("Enter amount in Dollar: ");
    scanf("%f", &dollar);

    rupees = dollar * 48;

    printf("Amount in Rupees = %.2f\n", rupees);

    return 0;
}
```

```
Enter amount in Dollar: 50
Amount in Rupees = 2400.00


=== Code Execution Successful ===
```

Figure 1: solution 8

C Programming Assignment 1

darsh mistry

August 2025

1 Convert dollars into Rs.

```c
#include <stdio.h>

int main() {
    float rupees, dollar;
    float rate = 83.0;

    printf("Enter amount in Rupees: ");
    scanf("%f", &rupees);

    dollar = rupees / rate;

    printf("Amount in Dollars = %.2f\n", dollar);

    return 0;
}
```

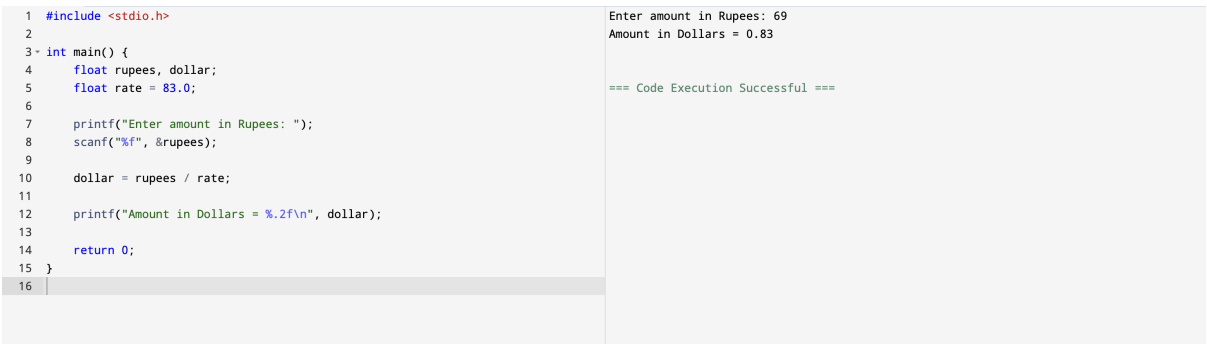

Figure 1: solution9

C Programming Assignment 1

darsh mistry

August 2025

1 Convert dollars into pounds

```c
#include <stdio.h>

int main() {
    float dollars, rupees, pounds;

    printf("Enter amount in Dollars: ");
    scanf("%f", &dollars);

    rupees = dollars * 48;

    pounds = rupees / 70;

    printf("%.2f Dollars = %.2f Pounds\n", dollars, pounds);

    return 0;
}
```

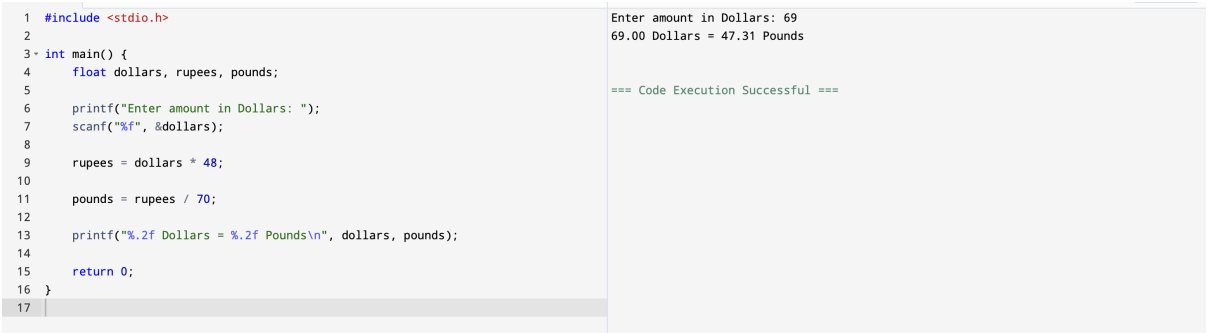

Figure 1: solution 10

C Programming Assignment 1

darsh mistry

August 2025

1 Convert grams into kg.

```c
#include <stdio.h>

int main() {
    float grams, kilograms;

    printf("Enter weight in Grams: ");
    scanf("%f", &grams);

    kilograms = grams / 1000;

    printf("Weight in Kilograms = %.3f\n", kilograms);

    return 0;
}
```

Figure 1: solution 11

C Programming Assignment 1

darsh mistry

August 2025

1 Convert kg into grams.

```c
#include <stdio.h>

int main() {
    float kilograms, grams;

    printf("Enter weight in Kilograms: ");
    scanf("%f", &kilograms);

    grams = kilograms * 1000;

    printf("Weight in Grams = %.2f\n", grams);

    return 0;
}
```

Figure 1: solution12

C Programming Assignment 1

darsh mistry

August 2025

1 Convert bytes into KB, MB, GB.

```c
#include <stdio.h>

int main() {
    float bytes, kb, mb, gb;

    printf("Enter size in Bytes: ");
    scanf("%f", &bytes);

    kb = bytes / 1024;
    mb = bytes / (1024 * 1024);
    gb = bytes / (1024 * 1024 * 1024);

    printf("\nSize in KB = %.2f", kb);
    printf("\nSize in MB = %.2f", mb);
    printf("\nSize in GB = %.2f\n", gb);

    return 0;
}
```

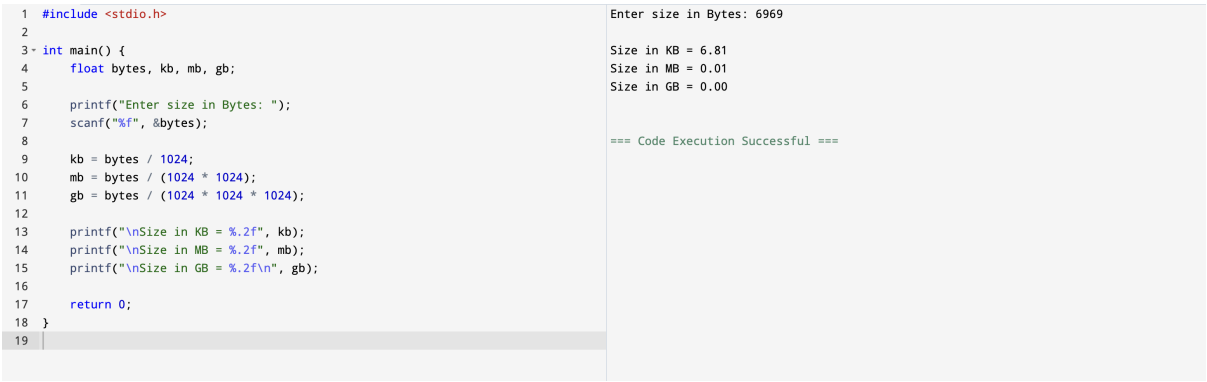

Figure 1: solution 13

C Programming Assignment 1

darsh mistry

August 2025

1 Celsius to Fahrenheit.

```c
#include <stdio.h>

int main() {
    float celsius, fahrenheit;

    printf("Enter temperature in Celsius: ");
    scanf("%f", &celsius);

    fahrenheit = (celsius * 9/5) + 32;

    printf("Temperature in Fahrenheit = %.2f\n", fahrenheit);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float celsius, fahrenheit;

    printf("Enter temperature in Celsius: ");
    scanf("%f", &celsius);

    fahrenheit = (celsius * 9/5) + 32;

    printf("Temperature in Fahrenheit = %.2f\n", fahrenheit);

    return 0;
}
```

```
Enter temperature in Celsius: 69
Temperature in Fahrenheit = 156.20


=== Code Execution Successful ===
```

Figure 1: solution14

C Programming Assignment 1

darsh mistry

August 2025

1 Fahrenheit to Celsius.

```c
#include <stdio.h>

int main() {
    float fahrenheit, celsius;

    printf("Enter temperature in Fahrenheit: ");
    scanf("%f", &fahrenheit);

    celsius = (fahrenheit - 32) * 5/9;

    printf("Temperature in Celsius = %.2f\n", celsius);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float fahrenheit, celsius;

    printf("Enter temperature in Fahrenheit: ");
    scanf("%f", &fahrenheit);

    celsius = (fahrenheit - 32) * 5/9;

    printf("Temperature in Celsius = %.2f\n", celsius);

    return 0;
}
```

```
Enter temperature in Fahrenheit: 69
Temperature in Celsius = 20.56


=== Code Execution Successful ===
```

Figure 1: solution15

C Programming Assignment 1

darsh mistry

August 2025

1 Calculate interest.

```c
#include <stdio.h>

int main() {
    float principal, rate, time, interest;

    printf("Enter Principal amount: ");
    scanf("%f", &principal);

    printf("Enter Rate of Interest (in %%): ");
    scanf("%f", &rate);

    printf("Enter Time (in years): ");
    scanf("%f", &time);

    interest = (principal * rate * time) / 100;

    printf("Simple Interest = %.2f\n", interest);

    return 0;
}
```

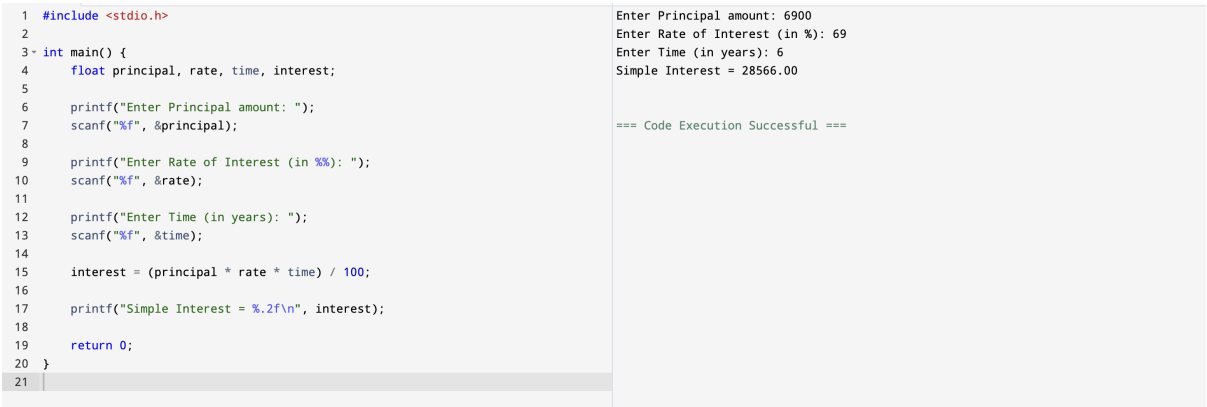

Figure 1: solution16

C Programming Assignment 1

darsh mistry

August 2025

1 Area and perimeter of a square.

```c
#include <stdio.h>

int main() {
    float side, area, perimeter;

    printf("Enter side of the square: ");
    scanf("%f", &side);

    area = side * side;
    perimeter = 4 * side;

    printf("Area of Square = %.2f\n", area);
    printf("Perimeter of Square = %.2f\n", perimeter);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float side, area, perimeter;

    printf("Enter side of the square: ");
    scanf("%f", &side);

    area = side * side;
    perimeter = 4 * side;

    printf("Area of Square = %.2f\n", area);
    printf("Perimeter of Square = %.2f\n", perimeter);

    return 0;
}
```

```
Enter side of the square: 69
Area of Square = 4761.00
Perimeter of Square = 276.00


=== Code Execution Successful ===
```

Figure 1: solution17

C Programming Assignment 1

darsh mistry

August 2025

1 Area perimeter of a rectangle.

```c
#include <stdio.h>

int main() {
    float length, breadth, area, perimeter;

    printf("Enter length of the rectangle: ");
    scanf("%f", &length);

    printf("Enter breadth of the rectangle: ");
    scanf("%f", &breadth);

    area = length * breadth;
    perimeter = 2 * (length + breadth);

    printf("Area of Rectangle = %.2f\n", area);
    printf("Perimeter of Rectangle = %.2f\n", perimeter);

    return 0;
}
```

Figure 1: solution 18

C Programming Assignment 1

darsh mistry

August 2025

1 Area of a circle.

```c
#include <stdio.h>

int main() {
    float radius, area;
    float pi = 3.1416;

    printf("Enter radius of the circle: ");
    scanf("%f", &radius);

    area = pi * radius * radius;

    printf("Area of Circle = %.2f\n", area);

    return 0;
}
```

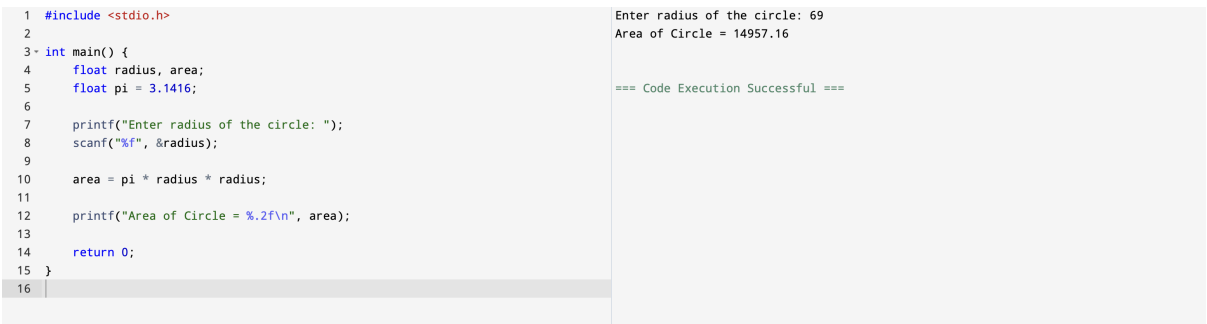

Figure 1: Enter Caption

C Programming Assignment 1

darsh mistry

August 2025

1 Area of a circle.

```c
#include <stdio.h>

int main() {
    float base, height, area;

    printf("Enter base of the triangle: ");
    scanf("%f", &base);

    printf("Enter height of the triangle: ");
    scanf("%f", &height);

    area = 0.5 * base * height;

    printf("Area of Triangle = %.2f\n", area);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float radius, area;
    float pi = 3.1416;

    printf("Enter radius of the circle: ");
    scanf("%f", &radius);

    area = pi * radius * radius;

    printf("Area of Circle = %.2f\n", area);

    return 0;
}
```

```
Enter radius of the circle: 69
Area of Circle = 14957.16


=== Code Execution Successful ===
```

Figure 1: solution20

C Programming Assignment 1

darsh mistry

August 2025

1 Net salary

```c
#include <stdio.h>

int main() {
    float basic_salary, allowance, deduction, net_salary;

    printf("Enter Basic Salary: ");
    scanf("%f", &basic_salary);

    allowance = 0.10 * basic_salary;
    deduction = 0.03 * basic_salary;

    net_salary = basic_salary + allowance - deduction;

    printf("Net Salary = %.2f\n", net_salary);

    return 0;
}
```

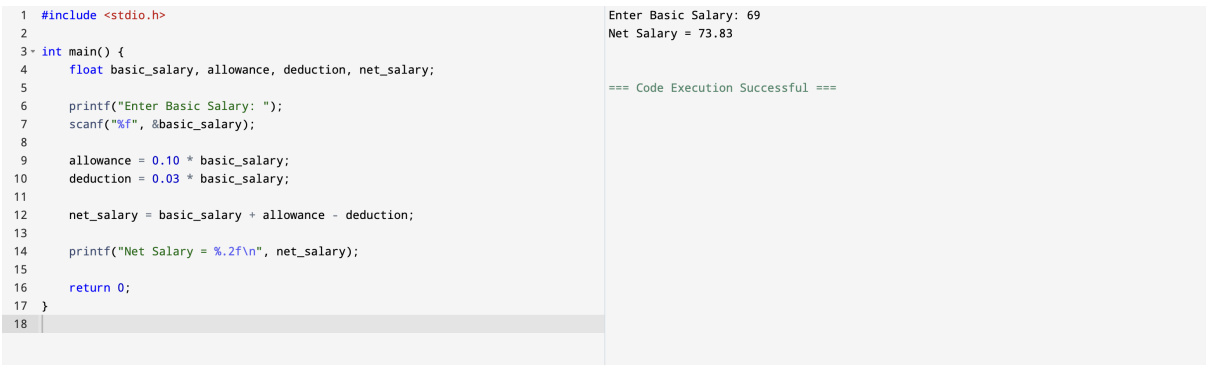

Figure 1: solution21

C Programming Assignment 1

darsh mistry

August 2025

1 Net sales with 10percentage discount

```c
#include <stdio.h>

int main() {
    float sales, discount, net_sales;

    printf("Enter Sales Amount: ");
    scanf("%f", &sales);

    discount = 0.10 * sales;

    net_sales = sales - discount;

    printf("Net Sales = %.2f\n", net_sales);

    return 0;
}
```

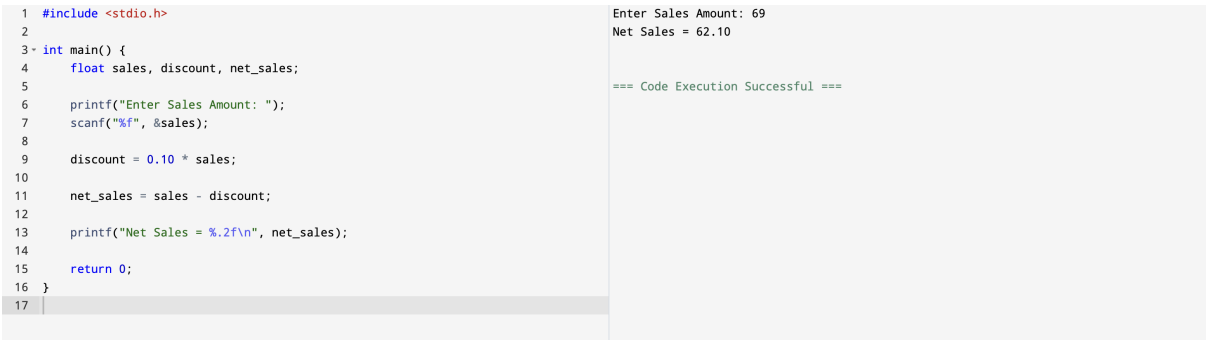

Figure 1: Enter Caption

C Programming Assignment 1

darsh mistry

August 2025

1 Average andtotal of three subjects.

```c
#include <stdio.h>

int main() {
    float sub1, sub2, sub3, total, average;

    printf("Enter marks of Subject 1: ");
    scanf("%f", &sub1);

    printf("Enter marks of Subject 2: ");
    scanf("%f", &sub2);

    printf("Enter marks of Subject 3: ");
    scanf("%f", &sub3);

    total = sub1 + sub2 + sub3;
    average = total / 3;

    printf("Total = %.2f\n", total);
    printf("Average = %.2f\n", average);

    return 0;
}
```

```c
#include <stdio.h>

int main() {
    float sub1, sub2, sub3, total, average;

    printf("Enter marks of Subject 1: ");
    scanf("%f", &sub1);

    printf("Enter marks of Subject 2: ");
    scanf("%f", &sub2);

    printf("Enter marks of Subject 3: ");
    scanf("%f", &sub3);

    total = sub1 + sub2 + sub3;
    average = total / 3;

    printf("Total = %.2f\n", total);
    printf("Average = %.2f\n", average);

    return 0;
}
```

```
Enter marks of Subject 1: 69
Enter marks of Subject 2: 69
Enter marks of Subject 3: 69
Total = 207.00
Average = 69.00


=== Code Execution Successful ===
```

Figure 1: solution 23

C Programming Assignment 1

darsh mistry

August 2025

1 Swap two values.

```c
#include <stdio.h>

int main() {
    int a, b, temp;

    printf("Enter first number (a): ");
    scanf("%d", &a);

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

    temp = a;
    a = b;
    b = temp;

    printf("After swapping:\n");
    printf("a = %d\n", a);
    printf("b = %d\n", b);

    return 0;
}
```

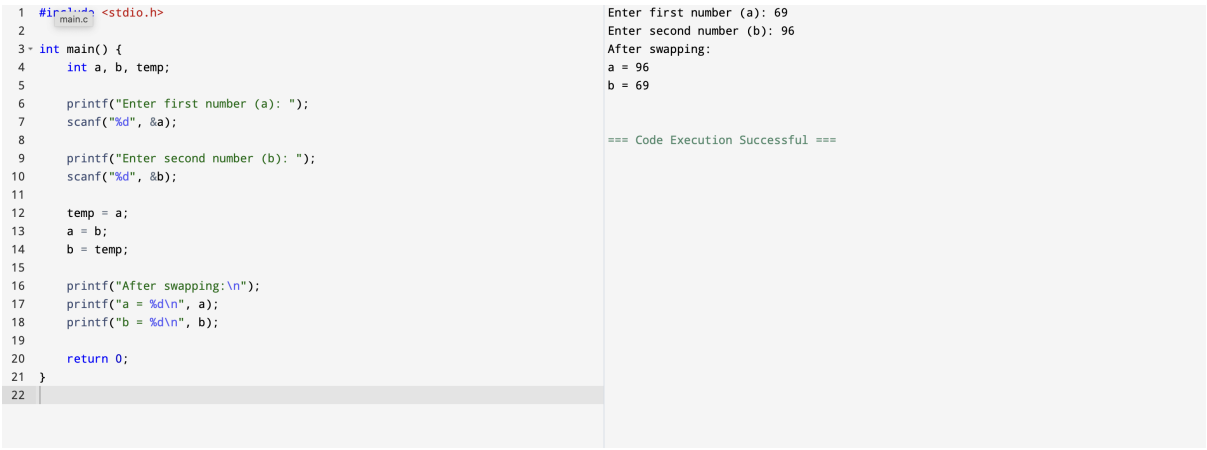

Figure 1: solution24