

computer programing

SIDDHARTH KESHWALA

August 2025

1 Addition

```
#include<stdio.h>

int main() int a,b, sum;

printf("enter two numbers: ");

scanf("%d%d", &a, &b);
sum = a+b;

printf("sum = %d\n", sum );

return 0;
```

2 output

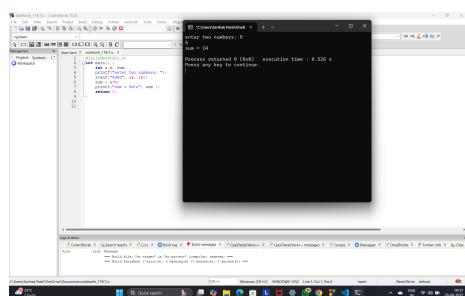


Figure 1: Enter Caption

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1 Subtract

```
#include<stdio.h>

int main() int a,b, subtract;

printf("enter two numbers");

scanf("%d %d", &a ,&b);
subtract = a-b;

printf("subtract = %d\n", subtract);

return 0;
```

2 output

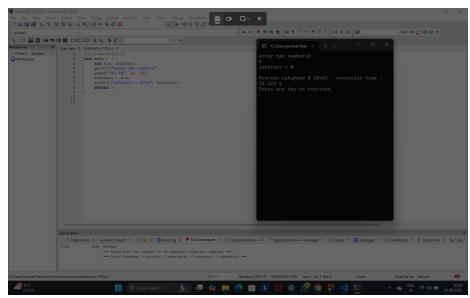


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1 Multiply

```
#include<stdio.h>

int main() int a,b, multiply;

printf("enetr two numbers");

scanf("%d %d", &a, &b);
multiply = a*b;

printf("multiply= %d\n",multiply);

return 0;
```

2 Output

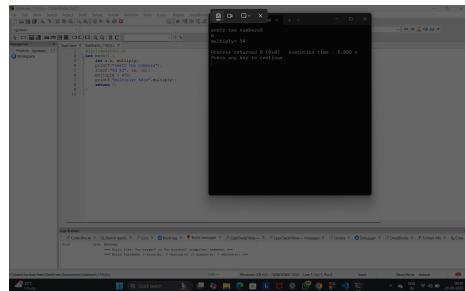


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1 Divide

```
#include<stdio.h>

int main() int a, b, divide;
printf("enter two numbers");

scanf("%d %d", &a,&b);
divide=a/b;

printf("divide = %d\n", divide);

return 0;
```

2 Output

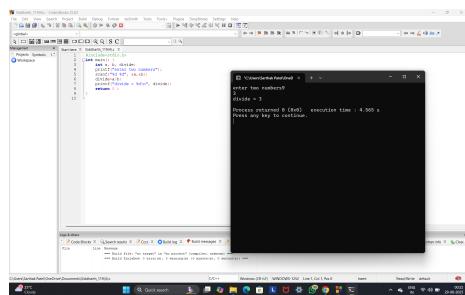


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1 All Four

```
#include<stdio.h>

int main() int a,b, sum,subtract,multiply;
float divide;

printf("enter two numbers");

scanf("%d %d", &a , &b);
sum = a+b; subtract = a-b; multiply = a*b; divide = a/b;

printf("sum = %d\n",sum);

printf("subtract = %d\n",subtract);

printf("multiply = %d\n",multiply);

printf("divide = %.2f\n",divide);

return 0;
```

2 Output

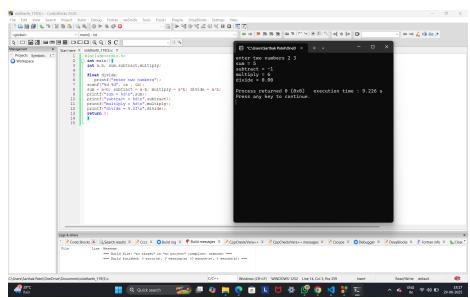


Figure 1: Enter Caption

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1 Hours into minutes

```
#include <stdio.h>

int main() int hours; int minutes;

printf("Enter the number of hours: ");

scanf("%d", &hours);

minutes = hours * 60;

printf(" conversation of given hours into minutes is %d \n",minutes);

return 0;
```

2 Output

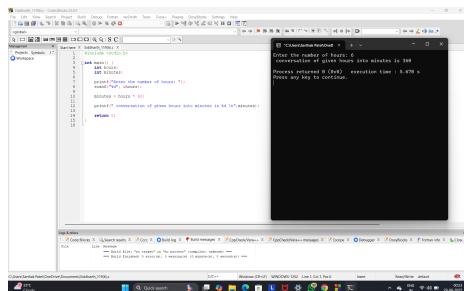


Figure 1: Enter Caption

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1 Minutes to hours

```
#include <stdio.h>

int main() int hours; int minutes;

printf("Enter the number of minutes: ");

scanf("%d", &minutes);

hours = minutes / 60;

printf("conversion of given minutes into hours is %d \n",hours);

return 0;
```

2 Output

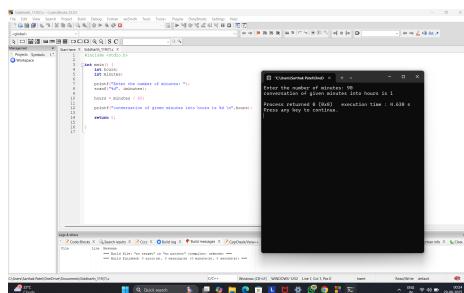


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1 Dollars to Rs.

```
#include <stdio.h>

int main() int dollars, rupees;
printf("Enter amount in Dollars: ");

scanf("%d", &dollars);

rupees = dollars * 48;

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

return 0;
```

2 Output

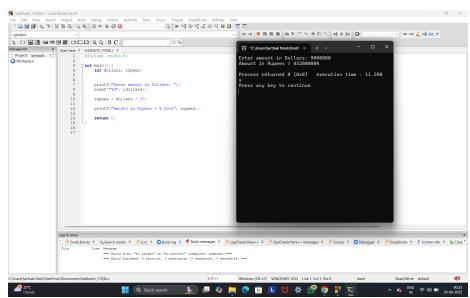


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1 Rs. to dollars

```
#include<stdio.h>

int main() int rupees,dollar;

printf("enter the amount of rupees: ");

dollar = rupees / 48;

printf("your dollar converted form rupees is %.2d\n", dollar);

return 0 ;
```

2 Output

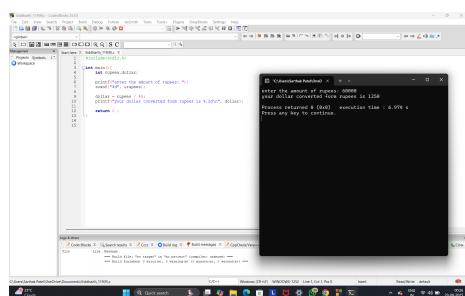


Figure 1: Enter Caption

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1 Dollars into pounds

```
#include<stdio.h>

int main() float dollars,pounds,rupees;

printf("enter the amount of dollars: ");

rupees = dollars * 48; pounds = rupees / 70;

printf("converted pounds are %.2f\n", pounds);

return 0 ;
```

2 Output

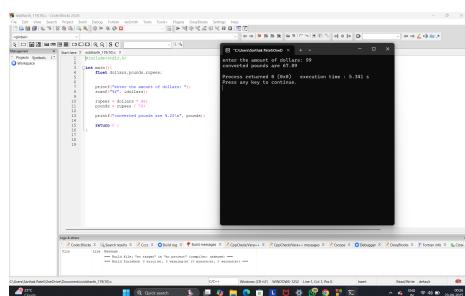


Figure 1: Enter Caption

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1 Grams into kg

```
#include <stdio.h>

int main() float grams, kilograms;

printf("Enter the weight in grams: ");

scanf("%f", &grams);

kilograms = grams / 1000;

printf("Conversation grams equals %f kilograms.\n", kilograms);

return 0;
```

2 Output

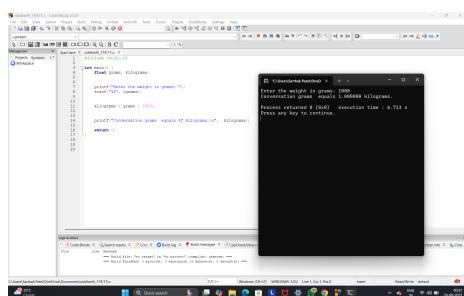


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1 kg to grams

```
include <stdio.h>

int main() float grams, kilograms;

printf("Enter the weight in kilograms: ");

scanf("%f", &kilograms);

grams = kilograms * 1000;

printf("Conversion kilograms equals %f grams.\n", grams);

return 0;
```

2 Output

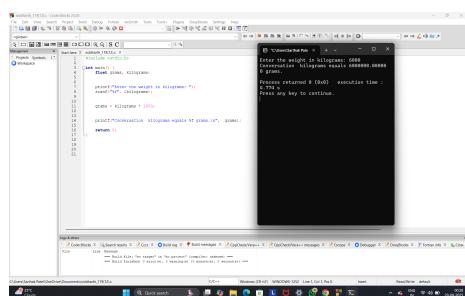


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1 Bytes to kb mb gb

```
#include<stdio.h>

int main() float bytes,KB,MB,GB;

printf("enter the number of bytes:");

scanf("%f", &bytes);

KB = bytes /1000;
MB = bytes /1000000;
GB = bytes /1000000000;

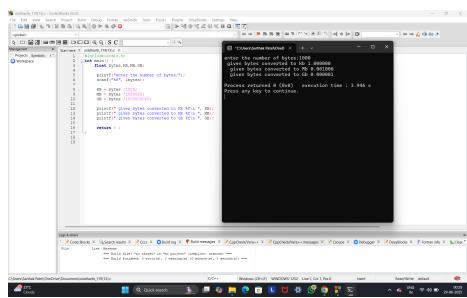
printf(" given bytes converted to Kb %f\n ", KB);

printf(" given bytes converted to Mb %f\n ", MB);

printf(" given bytes converted to Gb %f\n ", GB);

return 0 ;
```

2 Output



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1 Celsius to fahrenhieit

```
#include<stdio.h>

int main ()
float celsius,fahrenheit;

printf("enter the celsius:");

scanf("%f", &celsius);

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

printf(" celsius are converted to %f\n fahrenheitz", fahrenheit);

return 0 ;
```

2

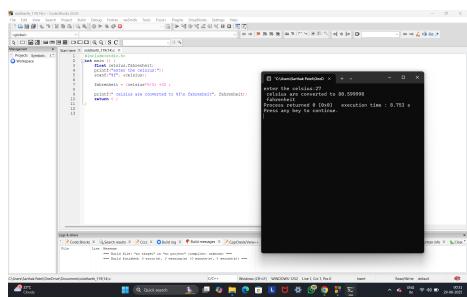


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1 Fahrenheit to celsius

```
#include<stdio.h>

int main () float fahrenheit,celsius;
printf("enter the fahrenheit:");

scanf("%f", &fahrenheit);

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

printf("fahrenheit to celsius is %f\n", celsius);

return 0;
```

2 Output

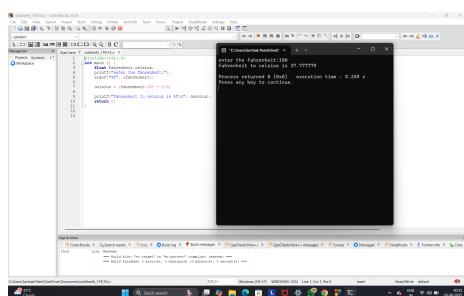


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1 Calculate Interest

```
#include<stdio.h>

int main () int principal,rate,time,simpleintrest;
    printf(" principlal value:");
    scanf("%d",&principal);

    printf(" rate of intrest:");
    scanf("%d",&rate);

    printf(" time:");
    scanf("%d",&time);

    simpleintrest=(principal*rate*time)/100;
    printf("simple intrest = %d\n",simpleintrest);

return 0;
```

2 Output

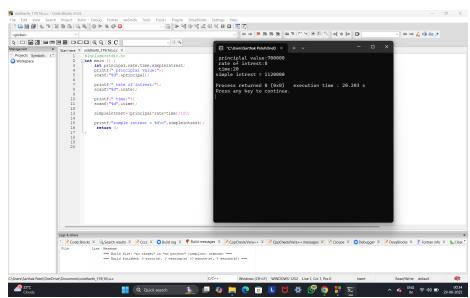


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1 Area and perimeter of square

```
#include <stdio.h>

int main() float length, area, perimeter;

printf(" length of square's side: ");

scanf("%f", &length);

area = length * length; perimeter = 4 * length;

printf("Area of square  %f\n", area);

printf("Perimeter of square  %f\n", perimeter);

return 0;
```

2 Output

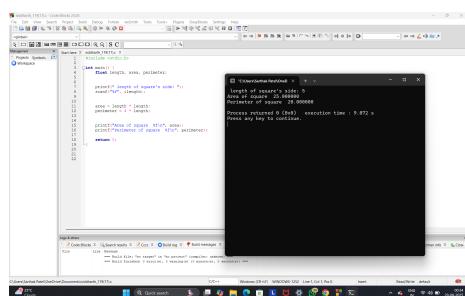


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1 Area and perimeter of rectangle

```
#include <stdio.h>

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

printf("Enter length of rectangle: ");

scanf("%f", &length);

printf("Enter breadth of 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;
```

2 Output

The screenshot shows a terminal window running a C program. The program defines a struct `rectangle` with fields `length`, `width`, `area`, and `perimeter`. It then creates three instances of this struct and prints their areas and perimeters. Finally, it calculates the total area and perimeter of all rectangles combined. The output shows the individual calculations and the final totals.

```
#include <cs50.h>
#include <stdio.h>

// rectangle struct
struct rectangle {
    int length;
    int width;
    int area;
    int perimeter;
};

int main(void) {
    // Create three rectangles
    struct rectangle rect1 = {10, 5, 50, 30};
    struct rectangle rect2 = {15, 8, 120, 42};
    struct rectangle rect3 = {20, 10, 200, 50};

    // Print areas and perimeters of each rectangle
    printf("Area of rectangle 1: %d\n", rect1.area);
    printf("Perimeter of rectangle 1: %d\n", rect1.perimeter);
    printf("Area of rectangle 2: %d\n", rect2.area);
    printf("Perimeter of rectangle 2: %d\n", rect2.perimeter);
    printf("Area of rectangle 3: %d\n", rect3.area);
    printf("Perimeter of rectangle 3: %d\n", rect3.perimeter);

    // Calculate total area and perimeter
    int total_area = rect1.area + rect2.area + rect3.area;
    int total_perimeter = rect1.perimeter + rect2.perimeter + rect3.perimeter;

    // Print total area and perimeter
    printf("Total area of rectangles: %d\n", total_area);
    printf("Total perimeter of rectangles: %d\n", total_perimeter);

    return 0;
}
```

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1 Area of circle

```
#include <stdio.h>

int main() float radius, area;

printf("Enter radius of circle ");

scanf("%f", &radius);

area = (22.0 / 7.0) * radius * radius;

printf(" finded Area of circle %.2f\n", area);

return 0;
```

2 Output

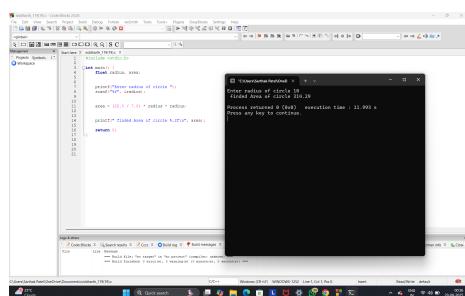


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1 Area of triangle

```
#include <stdio.h>

int main() float base, height, area;

printf("Enter base the triangle: ");
\begin{verbatim}
scanf("%f", &base);

\begin{verbatim}
printf("Enter height the triangle: ");

scanf("%f", &height);

area = base * height * 1/2;

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

return 0;
```

2 Output

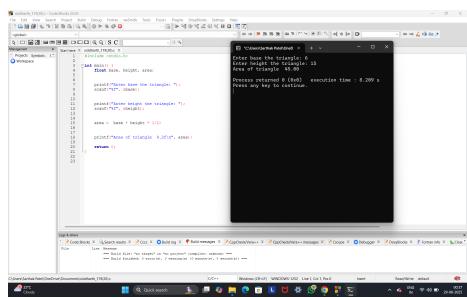


Figure 1: Enter Caption

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1 Net Salary

```
#include <stdio.h>

int main() float gross_salary, allowance, deduction, net_salary;

printf("Enter gross salary: ");

scanf("%f", &gross_salary);

allowance = gross_salary * 10/100;
deduction = gross_salary * 3/100;
net_salary = gross_salary + allowance - deduction;

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

return 0;
```

2 Output

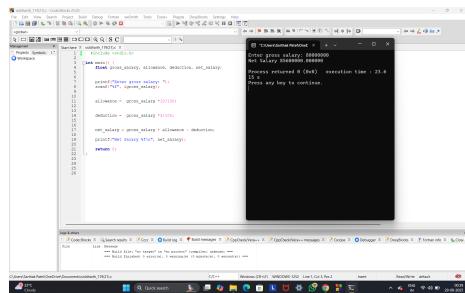


Figure 1: Enter Caption

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1 Net Sales with discount

```
#include<stdio.h>

int main() float gross_sales, discount, net_sales;

printf("gross sales");

scanf("%f", &gross_sales);

discount= gross_sales * 0.10;
net_sales = gross_sales - discount;

printf("final net sale %.2f\n",net_sales);

return 0;
```

2 Output

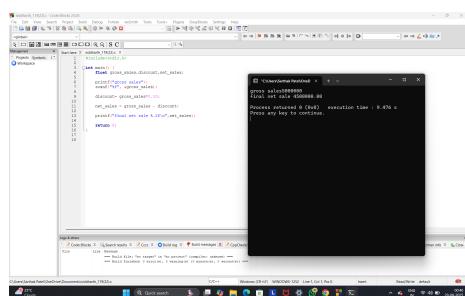


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1 Average and total of 3 subjects

```
#include <stdio.h>

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

printf("Enter marks of Subject 1: ");
\begin{verbatim}
scanf("%f", &sub1);

\begin{verbatim}
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;
```

2 Output

```
gdb(main) run
Breakpoint 1, main () at main.c:10
10      printf("Total %d, avg. %d\n", total, total / 10);
(gdb) b main.c:10
Breakpoint 1, main () at main.c:10
(gdb) r
Starting program: /tmp/main

Total 100, avg: 10
Enter match of Sal.txt: 1 29
Enter match of Sal.txt: 2 29
Enter match of Sal.txt: 3 29
Enter match of Sal.txt: 4 29
Enter match of Sal.txt: 5 29
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Enter match of Sal.txt: 9 29
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Enter match of Sal.txt: 92 29
Enter match of Sal.txt: 93 29
Enter match of Sal.txt: 94 29
Enter match of Sal.txt: 95 29
Enter match of Sal.txt: 96 29
Enter match of Sal.txt: 97 29
Enter match of Sal.txt: 98 29
Enter match of Sal.txt: 99 29
Enter match of Sal.txt: 100 29
Process returned 0 (Exit code: 0)
Execution time : 0.000 s
Press any key to continue
```

Figure 1: Enter Caption

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1 Swapping two values

```
#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 a&b:\n");

printf("a = %d\n", a);

printf("b = %d\n", b);

return 0;
```

2 Output

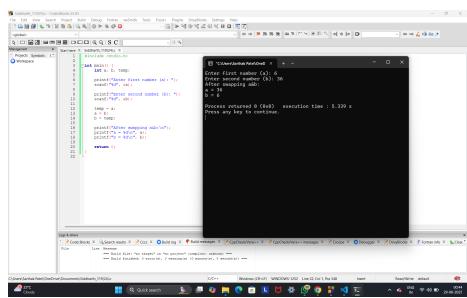


Figure 1: Enter Caption