1. Write a C program to add two integers.

IPO:

Input: Two integers (a, b)

Process: Add the two integers (sum = a + b)

Output: Sum of the two integers

Code:

#include<stdio.h>

void main()

{

int a,b;

printf("Enter two numbers ");

scanf("%d %d", &a,&b);

printf("\nThe sum of the given two numbers = %d ", a+b);

}

Output:

1. Write a program to swap two numbers using a temporary variable.

IPO:

Input: Two integers (a, b)

Process:

• Store a in c

• Assign b to a

• Assign c to b

Output: Swapped values of a and b

Code:

#include<stdio.h>

void main()

{

int a,b,c;

scanf("%d %d",&a,&b);

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

c = a;

a = b;

b = c;

printf("after swapping a = %d b = %d",a,b);

}

Output:

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1. Write a program to swap two numbers without using a temporary variable.

IPO:

Input: Two integers - a,b

Process:

a = a + b

b = a - b

a = a - b

Output: Swapped values of a and b

Code:

#include<stdio.h>

void main()

{

int n,m;

scanf("%d %d", &n, &m);

printf("before swapping : \nfirst number = %d\nsecond number =%d\n",n,m);

n = n + m;

m = n - m;

n = n - m;

printf("after swapping : \nfirst number = %d\nsecond number = %d\n",n,m);

}

Output:

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1. Write a program to find the ASCII value of a character.

IPO:

Input: character c

Process: Get the ASCII value using implicit casting

Output: ASCII value of the character

Code:

#include<stdio.h>

void main()

{

    char c;

    printf("enter a character ");

    scanf("%c",&c);

    int a = c;

    printf("The ASCII value of %c is %d",c,a);

}

Output:

1. Write a program to calculate the area and perimeter of a rectangle.

IPO:

Input: Length and width – l,b

Process:

. area = length × width

. perimeter = 2 × (length + width)

Output: Area and perimeter of the rectangle

Code :

#include<stdio.h>

void main()

{

int 1,b;

scanf("%d %d", &1,&b);

printf("the area of the rectangle = %d\n",1\*b);

printf("the perimeter of the rectangle = %d", 2\*(1+b));

}

Output:

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1. Write a program to compute the simple interest.

IPO:

Input: Principal, rate, time

Process: Si = (principal × rate × time) / 100

Output: Simple interest

Code:

#include<stdio.h>

void main()

{

    int p,r,t;

    float si;

    printf("enter the values of principle , rate and interest ");

    scanf("%d %d %d",&p,&r,&t);

    si = p\*r\*t;

    printf("Simple interest = %f",si);

}

Output:



1. Write a program to convert temperature from Celsius to Fahrenheit.

IPO:

Input: Temperature in Celsius

Process: fahrenheit = (celsius × 1.8) + 32

Output: Temperature in Fahrenheit

Code:

#include<stdio.h>

void main()

{

int c;

float f;

printf("enter the temperature ");

scanf("%d",&c);

f= c \* 1.8 + 32 ;

printf("Fahrenheit = %.2f", f);

}

Output:

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1. Write a program to find the quotient and remainder of two integers.

IPO:

Input: Dividend and divisor

Process:

quotient = dividend / divisor

remainder = dividend % divisor

Output: Quotient and remainder

Code:

    #include<stdio.h>

    void main()

    {

        int a,b;

        printf("Enter the dividend ");

        scanf("%d",&a);

        printf("enter the divisor ");

        scanf("%d",&b);

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

        printf("Remainder = %d",b);

    }

Output:

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AI-generated content may be incorrect.

1. Write a program to check whether a number is even or odd.

IPO:

Input: number n

Process: Check if n % 2 == 0 (even) or else (odd)

Output: n is even or odd

Code:

#include<stdio.h>

void main()

{

int n;

printf("enter a number ");

scanf("%d",&n);

if(n % 2 == 0)

printf("even");

else

printf("odd");

}

Output:



1. Write a program to calculate the square and cube of a number

IPO:

Input: number a

Process:

square = a\*a

cube = a\*a\*a

Output: Square and cube of a

Code:

#include<stdio.h>

void main()

{

int a;

printf("enter a number ");

scanf("%d",&a);

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

printf("Cube of the %d = %d",a,a\*a\*a);

}

Output:

A number on a black background

AI-generated content may be incorrect.