main.c

Share Run

Output Clear

```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

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

    time_t t;
    srand((unsigned) time(&t));

    a = (rand() % 90) + 10;
    b = (rand() % 90) + 10;

    result = a + b;

    printf("The two random numbers are: %d and %d\n", a, b);
    printf("Their sum is: %d\n", result);

    return 0;
}
```

```
The two random numbers are: 90 and 61
Their sum is: 151


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

main.c

Share Run

```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main() {
    int a, b;
    srand(time(0));

    a = rand() % 100 + 1;
    b = rand() % 100;

    printf("First number: %d\n", a);
    printf("Second number: %d\n", b);

    printf("Sum = %d\n", a + b);
    printf("Difference = %d\n", a - b);
    printf("Product = %d\n", a * b);

    if (b != 0) {
        printf("Quotient = %.2f\n", (float)a / b);
    } else {
        printf("Division not possible (denominator is zero)\n");
    }

    return 0;
```

Output Clear

```
First number: 43
Second number: 15
Sum = 58
Difference = 28
Product = 645
Quotient = 2.87


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

main.c

Share Run

```c
#include <stdio.h>

int main() {
    int length = 12, breadth = 8;
    int area, perimeter;

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

    printf("Length = %d\n", length);
    printf("Breadth = %d\n", breadth);
    printf("Area = %d\n", area);
    printf("Perimeter = %d\n", perimeter);

    return 0;
}
```

Output Clear

```
Length = 12
Breadth = 8
Area = 96
Perimeter = 40


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

main.c

Share Run

```c
#include <stdio.h>
#define PI 3.1416

int main() {
    int radius = 10;
    float area, circumference;

    area = PI * radius * radius;
    circumference = 2 * PI * radius;

    printf("Radius = %d\n", radius);
    printf("Area = %.2f\n", area);
    printf("Circumference = %.2f\n", circumference);

    return 0;
}
```

Output Clear

```
Radius = 10
Area = 314.16
Circumference = 62.83


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

main.c

Share Run

```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main() {
    int celsius;
    float fahrenheit;

    srand(time(0));
    celsius = rand() % 101;

    fahrenheit = (celsius * 9.0 / 5.0) + 32;

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

    return 0;
}
```

Output Clear

```
Temperature in Celsius = 18
Temperature in Fahrenheit = 64.40


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

main.c

Share Run

```c
#include <stdio.h>

int main(void) {
    int a = 5;
    int b = 10;
    int temp;

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

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

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

    return 0;
}
```

Output Clear

```
Before swapping: a = 5, b = 10
After swapping:  a = 10, b = 5


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

main.c

Share Run

```c
#include <stdio.h>

int main(void) {
    int a = 5, b = 10;

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

    a = a + b;
    b = a - b;
    a = a - b;

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

    return 0;
}
```

Output Clear

```
Before swapping: a = 5, b = 10
After swapping:  a = 10, b = 5


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

main.c

Share Run

```c
#include <stdio.h>

int main(void) {
    int n = 10, sum;

    sum = (n * (n + 1)) / 2;

    printf("The sum of the first %d natural numbers is: %d\n", n,
        sum);

    return 0;
}
```

Output Clear

```
The sum of the first 10 natural numbers is: 55


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

main.c

Share Run

```c
#include <stdio.h>

int main(void) {
    float principal = 12000, rate = 6, time = 3;
    float simpleInterest, compoundInterest, amount;

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

    amount = principal;
    for(int i = 1; i <= time; i++) {
        amount = amount + (amount * rate / 100);
    }
    compoundInterest = amount - principal;

    printf("Principal = %.2f\n", principal);
    printf("Rate = %.2f%%\n", rate);
    printf("Time = %.2f years\n", time);
    printf("Simple Interest = %.2f\n", simpleInterest);
    printf("Compound Interest = %.2f\n", compoundInterest);

    return 0;
}
```

Output

Clear

```
Principal = 12000.00
Rate = 6.00%
Time = 3.00 years
Simple Interest = 2160.00
Compound Interest = 2292.19


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

main.c

Share Run

Output Clear

```c
#include <stdio.h>

int main() {
    int t = 3675, h, m, s;

    h = t / 3600;
    m = (t % 3600) / 60;
    s = t % 60;

    printf("Seconds = %d\nTime = %02d:%02d:%02d\n", t, h, m, s);
    return 0;
}
```

```
Seconds = 3675
Time = 01:01:15


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