

main.c



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Output

Clear

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4
5  int main() {
6      int a, b;
7      int result;
8
9      time_t t;
10     srand((unsigned) time(&t));
11
12     a = (rand() % 90) + 10;
13     b = (rand() % 90) + 10;
14
15     result = a + b;
16
17     printf("The two random numbers are: %d and %d\n", a, b);
18     printf("Their sum is: %d\n", result);
19
20     return 0;
21 }
22
```

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

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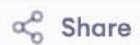
Clear

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4
5  int main() {
6      int a, b;
7      srand(time(0));
8
9      a = rand() % 100 + 1;
10     b = rand() % 100;
11
12     printf("First number: %d\n", a);
13     printf("Second number: %d\n", b);
14
15     printf("Sum = %d\n", a + b);
16     printf("Difference = %d\n", a - b);
17     printf("Product = %d\n", a * b);
18
19     if (b != 0) {
20         printf("Quotient = %.2f\n", (float)a / b);
21     } else {
22         printf("Division not possible (denominator is zero)\n");
23     }
24
25     return 0;
```

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

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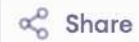
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```
1  #include <stdio.h>
2
3  int main() {
4      int length = 12, breadth = 8;
5      int area, perimeter;
6
7      area = length * breadth;
8      perimeter = 2 * (length + breadth);
9
10     printf("Length = %d\n", length);
11     printf("Breadth = %d\n", breadth);
12     printf("Area = %d\n", area);
13     printf("Perimeter = %d\n", perimeter);
14
15     return 0;
16 }
17
```

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

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```
1  #include <stdio.h>
2  #define PI 3.1416
3
4  int main() {
5      int radius = 10;
6      float area, circumference;
7
8      area = PI * radius * radius;
9      circumference = 2 * PI * radius;
10
11     printf("Radius = %d\n", radius);
12     printf("Area = %.2f\n", area);
13     printf("Circumference = %.2f\n", circumference);
14
15     return 0;
16 }
```

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

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```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4
5  int main() {
6      int celsius;
7      float fahrenheit;
8
9      srand(time(0));
10     celsius = rand() % 101;
11
12     fahrenheit = (celsius * 9.0 / 5.0) + 32;
13
14     printf("Temperature in Celsius = %d\n", celsius);
15     printf("Temperature in Fahrenheit = %.2f\n", fahrenheit);
16
17     return 0;
18 }
19
```

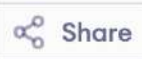
Output

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Temperature in Celsius = 18
Temperature in Fahrenheit = 64.40

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```
1  #include <stdio.h>
2
3  int main(void) {
4      int a = 5;
5      int b = 10;
6      int temp;
7
8      printf("Before swapping: a = %d, b = %d\n", a, b);
9
10     temp = a;
11     a = b;
12     b = temp;
13
14     printf("After swapping: a = %d, b = %d\n", a, b);
15
16     return 0;
17 }
18
```

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

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```
1 #include <stdio.h>
2
3 int main(void) {
4     int a = 5, b = 10;
5
6     printf("Before swapping: a = %d, b = %d\n", a, b);
7
8     a = a + b;
9     b = a - b;
10    a = a - b;
11
12    printf("After swapping: a = %d, b = %d\n", a, b);
13
14    return 0;
15 }
16
```

Output

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

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```
1  #include <stdio.h>
2
3  int main(void) {
4      int n = 10, sum;
5
6      sum = (n * (n + 1)) / 2;
7
8      printf("The sum of the first %d natural numbers is: %d\n", n,
9             sum);
10
11     return 0;
12 }
```

Output

Clear

The sum of the first 10 natural numbers is: 55

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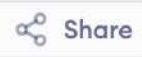
Clear

```
1  #include <stdio.h>
2
3  int main(void) {
4      float principal = 12000, rate = 6, time = 3;
5      float simpleInterest, compoundInterest, amount;
6
7      simpleInterest = (principal * rate * time) / 100;
8
9      amount = principal;
10     for(int i = 1; i <= time; i++) {
11         amount = amount + (amount * rate / 100);
12     }
13     compoundInterest = amount - principal;
14
15     printf("Principal = %.2f\n", principal);
16     printf("Rate = %.2f%%\n", rate);
17     printf("Time = %.2f years\n", time);
18     printf("Simple Interest = %.2f\n", simpleInterest);
19     printf("Compound Interest = %.2f\n", compoundInterest);
20
21     return 0;
22 }
23
```

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

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```
1  #include <stdio.h>
2
3  int main() {
4      int t = 3675, h, m, s;
5
6      h = t / 3600;
7      m = (t % 3600) / 60;
8      s = t % 60;
9
10     printf("Seconds = %d\nTime = %02d:%02d:%02d\n", t, h, m, s);
11     return 0;
12 }
13
```

Seconds = 3675
Time = 01:01:15

=== Code Execution Successful ===