



```
#include <stdio.h>

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

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

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

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

    printf("Perimeter of the rectangle: %.2lf\n", perimeter);
    printf("Area of the rectangle: %.2lf\n", area);

    return 0;
}
```

In this program, we declare variables for the length, breadth, perimeter, and area of the rectangle. We prompt the user to enter the length and breadth values using `printf` and `scanf`.

Next, we calculate the perimeter by adding the lengths of all four sides, which is $2 * (\text{length} + \text{breadth})$. The area is calculated by multiplying the length and breadth values, which is $\text{length} * \text{breadth}$.

Finally, we print the calculated perimeter and area using `printf` with the format specifier `%.2lf` to display the values with two decimal places.

C program to calculate perimeter and area of a rectangle

Please note that %lf is used for double data types in scanf and printf functions to correctly read and display decimal values.

Output

```
Enter the length of the rectangle: 5
Enter the breadth of the rectangle: 2
Perimeter of the rectangle: 14.00
Area of the rectangle: 10.00
```

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