Programme Number: 1

Title: Area of Rectangle and Triangle

Aim: calculate and display areas of rectangle and triangle

Algorithm:

1.Start

2.Input the choice to find the area of Rectangle or Triangle.

3.1 Input the length and breadth of the rectangle.

3.2 area= length * breadth

3.3 print "Area of Rectangle=", area.

4.1 Input the base and height of the triangle.

4.2 area= 0.5*base*height.

4.3 print "Area of Triangle=", area.

5.End

Program:

```c
/*
   Title: Area of Rectangle and Triangle
   Done by : Deepak M S
   Aim: calculate and display areas of rectangle and triangle

*/

#include<stdio.h>

int main(){
   //declaration of variables
   float base, height, width , length;

   //get length and width of rectangle
   printf("Enter the length and width of rectangle:");
   scanf("%f%f",&length,&width);

   //get length and width of triangle
   printf("Enter the length and width of triangle:");
   scanf("%f%f",&base,&height);

   //print area of rectangle
   printf("Area of %f length and %f width = %f \n",length,width,(length*width));

   //print area of triangleangle
   printf("Area of %f length and %f width = %f \n",base,height,(0.5*base*height));

}
```

Output:

```
Enter the length and width of rectangle:3
4
Enter the length and width of triangle:1
2
Area of 3.000000 length and 4.000000 width = 12.000000
Area of 1.000000 length and 2.000000 width = 1.000000


...Program finished with exit code 0
Press ENTER to exit console.
```

Result: program successful and able to print the area of rectangle and triangle