Exercise 4:To construct a cpp program in inline function using overloading.

Source code:

```
#include<iostream>
using namespace std;
class area
{
   public:
   void len(int a);
   void len(int l,int b);
   void len(int l,int b, int h);
};
inline void area::len(int a)
{
   int k;
   k=a*a;
   cout<<"Area of the square:"<<k;

}
inline void area::len(int l,int b)
{
   int k;
   k=l*b;
   cout<<"The area of rectangle:"<<k;
}
inline void area::len(int l,int b,int h)
{
   int k;
   k=(l*b*h)/2;
   cout <<"Area of the traingle:"<<k;

}
```

```
int main()
{
    int ch,a,l,b,h;
    area v;
    do{
        cout<<"\n 1.Area of Square:\n";
        cout<<"\n2.Area of Rectangle:\n";
        cout<<"\n3.Area of Triangle:\n";
        cout<<"4.Exit\n";
        cout <<"Enter your choice:\n";
        cin >>ch;
        switch(ch)
        {
            case 1:
            cout <<"\n Enter the side:";
            cin>>a;
            v.len(a);
            break;
            case 2:
            cout <<"Enter the length:\n";
            cin>>l;
            cout << "Enter the breadth:\n";
            cin>> b;
            v.len(l,b);
            break;
            case 3:
            cout <<"Enter the length:\n";
            cin>>l;
            cout << "Enter the breadth:\n";
            cin>> b;
            cout << "Enter the height:\n";
```

```
            cin>> h;
            v.len(l,b,h);
            break;
            case 4:
            cout<<"\nend";
            break;
        }
    }while(ch!=4);
}
```

Output:

```
1.Area of Square:
2.Area of Rectangle:
3.Area of Triangle:
4.Exit
Enter your choice:
1
 Enter the side:4
Area of the square:16
--------------------------------------------------
1.Area of Square:
2.Area of Rectangle:
3.Area of Triangle:
4.Exit
Enter your choice:
2
Enter the length:
4
Enter the breadth:
4
The area of rectangle:16
1.Area of Square:
```

2.Area of Rectangle:

3.Area of Triangle:

4.Exit

Enter your choice:

3

Enter the length:

4

Enter the breadth:

4

Enter the height:

4

Area of the traingle:32
