



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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LAB TEST 1

2005025

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```
/*WAP in C++ to create a class Length having  
two private data  
members as feet_025 & inches_025 and init  
ialize the data members using  
constructor . Now input two lengths and find  
out the greater one  
using non-  
member function. Also count_025 the no. of ob  
jects you have  
created for this class.*/  
#include <iostream>  
using namespace std;  
class length  
{
```

```

    int feet_025, inches_025;
    int static count_025;

public:
    length()
    {
        feet_025 = 12;
        inches_025 = 21;
        count_025++;
    }
    void input()
    {
        //cout << "enter the value of feet and inches\n";
        cin >> feet_025;
        cin >> inches_025;
    }
    static void counter()
    {
        cout << "no. of times object are made is " << count_025;
    }
    friend void greatest(length, length);
};
int length::count_025;
void greatest(length a, length b)
{
    if (a.feet_025 > b.feet_025)
    {

```

```

        cout << "greatest no. is " << a.feet
_025 << "feet " << a.inches_025 << "inches \n
";
    }
    else if (a.feet_025 == b.feet_025)
    {
        if (a.inches_025 > b.inches_025)
        {
            cout << "greatest no. is " << a.
feet_025 << "feet " << a.inches_025 << "inche
s \n";
        }
        else
        {
            cout << "greatest no. is " << b.
feet_025 << "feet " << b.inches_025 << "inche
s \n";
        }
    }
    else
    {
        cout << "greatest no. is " << b.feet
_025 << "feet_025" << b.inches_025 << "inches
_025\n";
    }
}

int main()
{
    length a, b, c;

```

```

    cout << "enter the 1st length in feet and
inches\n";
    a.input();
    cout << "enter the 2nd length in feet and
inches\n";
    b.input();
    greatest(a, b);
    length::counter();

return 0;
}

```

OUTPUT

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS D:\my codes\OOPS\ooplabtest> cd "d:\my codes\OOPS\ooplabtest\" ; if ($?) { g++ test.cpp -o test } ; if ($?) { .\test }
```

```
enter the 1st length in feet and inches
```

```
23
```

```
43
```

```
enter the 2nd length in feet and inches
```

```
23
```

```
23
```

```
greatest no. is 23feet 43inches
```

```
no. of times object are made is 3
```

```
PS D:\my codes\OOPS\ooplabtest> █
```