

Friend functions

Friend Functions

friends allow functions access to private data of other classes.

Friend Functions/Classes

Friend functions

A **'friend'** function has **access to all 'private' members** of the class for which it is a 'friend'.

To declare a 'friend' function, include its **prototype** within the class, preceding it with the C++ keyword 'friend'.

Friend Functions/Classes

Syntax:

```
class ABC
{
.....
public:
friend void xyz(object of class);
};
```

Characterteristics of Friend Functions

- It is not in scope of class.
- It cannot be called using object of that class.
- It can be invoked like a normal function.
- It should use a dot operator for accessing members.
- It can be public or private.
- It has objects as arguments.

Friend Functions Example

```
class demo
{
int x;
public:
demo(int a)
{
x=a;
}
friend void display(demo);
};
```

```
void display(demo d1)
{
cout<<d1.x;
}
void main()
{
demo d2(5);
display(d2);
}
```

Thank You