## SCOPE RESOLUTION OPERATOR

Operator-::

Applications and their syntax:

1.) In order to access a global variable which has same name as local variable.

```
Ex. #include<iostream>
using namespace std;
int n;
int main()
 int n=2;
 cout << "global x is " << ::n; // n=0
 cout << "\nlocal x is " << n; // n=2
 return 0;
   2.) To define a function outside a class
Ex. #include<iostream>
using namespace std;
class fn
public:
 int fun();
};
int fn::fun()
 cout << "Hi";
int main()
 fn a;
 a.fun(); // print Hi
 return 0;
}
```

```
3.) Multiple inheritance
Ex.
#include<iostream>
using namespace std;
class one
protected:
  int x;
public:
  one() { x = 10; }
};
class two
protected:
  int x;
public:
  two) \{ x = 20; \}
};
class three: public one, public two
{
public:
 void fun()
 {
   cout << "one's x is " << one::x;
   cout << "\ntwo's x is " << two::x;
 }
};
int main()
  three 0;
  o.fun();
  return 0;
}
   4.) For namespace
Ex:
#include<iostream>
int main(){
```

```
std::cout << "Hi" << std::endl;
}
5.) To use a class in another class
#include<iostream>
using namespace std;
class out
public:
   int x;
   class in
   public:
      int x;
      static int y;
  };
};
int out::in::y = 5;
int main(){
  outside A;
  outside::inside B;
}
```