Introduction to c++

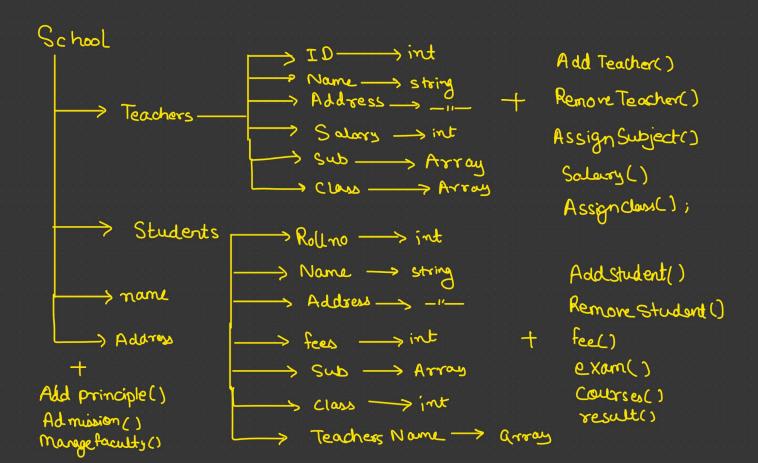
- \$ 1970 > Structured programming.
- 1980 Object oriented programming. TC++

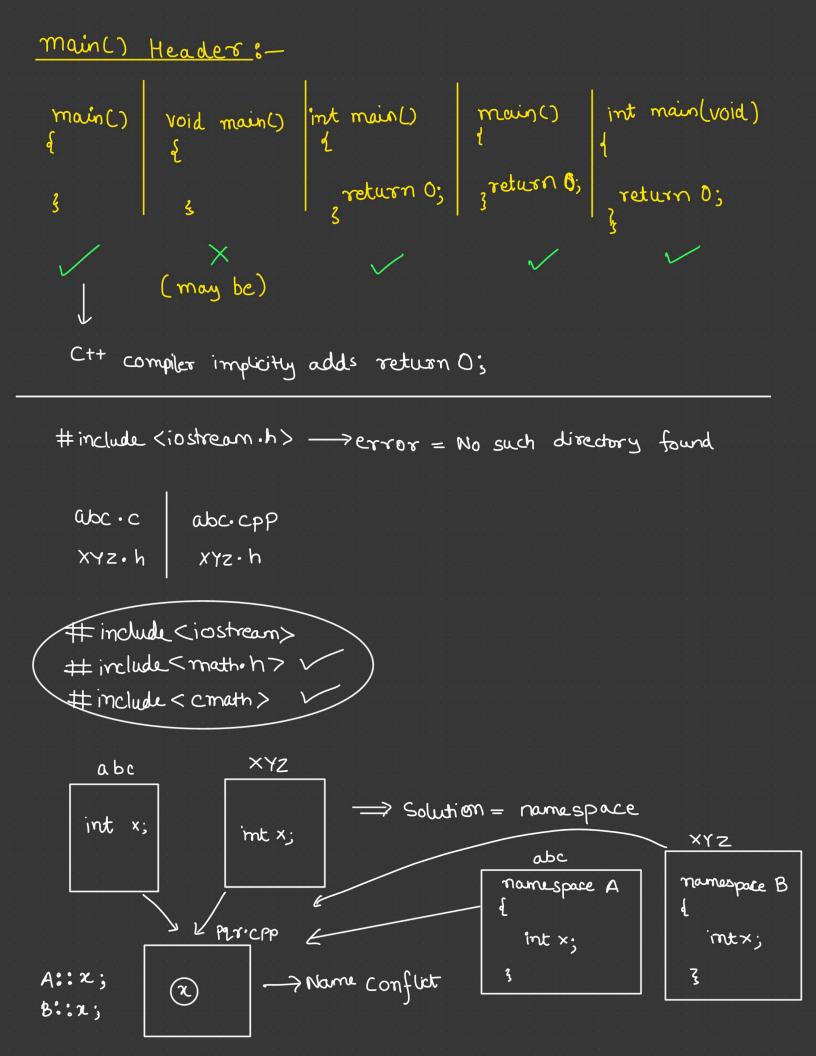
 Small talk.

C++ was developed by Bjarne Strowsrup at Bell Lab's USA.
in 1980s.

C++ has 3 seperate programming concept:-

- i) Procedural language, represented by C.
- 2) Object Oriented Programming. (OOPs concept).
- 3) Generic Programming. (Template)





A:: func); B::func);

$$\begin{array}{cccc}
\hline
 \text{cout} + &<< \Rightarrow \text{output} \\
\hline
 \text{cin} + >> \Rightarrow \text{input}
\end{array}$$

Syntax:Std::cout <<"Hello prateek";
Std::cin>>x;

ways to use namespace:

- 1 std :: cout << "Hi";
- 2) using std::cout; cout<< "Hi";
- 3 using namespace std; Cout<<"Hi";

```
# include < iostream>
using name space Std; -> using directives
namespace A
   int x;
               // namespace variable
            // Global variable
 int x = 10;
 int main ()
                                           5 min Break
   int x=5; // local variable
   Cout<< x; → local print
    cout << :: 2; -> Global print
    cout << A:: 2 -> namespace print
    return 0;
   3
```

```
namespace A

int x;

namespace A

int y;

Allowed

int y;

using namespace A;

using namespace std;
```

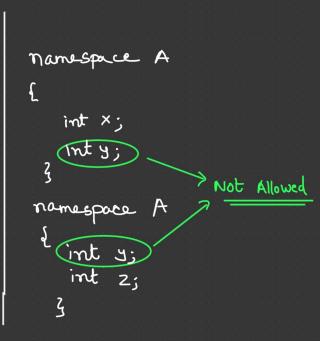
```
int main ()

{

cout << n;

return 0;

}
```



Nested Name Space :-

```
int main()

{

int x;

Cout << A:: x;

Cout << B:: y;

Perror

Cout << A:: B:: y;

return 0;

}

Using namespace A;

using name space B;

using namespace A:: B;

Using namespace A:: B;
```

Alias of Namespace :-

cout << pin :: 2;

```
namespice prateek_jain_namespace;

int x;

3

namespice pjn = prateek_jain_namespace;
```

```
mamespace A

int x = 10;

namespace B

int y = 5;

int maisc)

cout << c:: y;

return 0;

}
```

Unammed namespace:

```
mamespace

{

int x = 5;

}

int main()

{

cout<< x;

return 0;

}
```

you can't use names for unnounced ranespace in a file other than the one that contains the namespace declaration.

