

11/02/2023 (Important points)

- 1) C++ is a middle level language & middle level language has both features of high level and low level language.
- 2) Namespaces are used to avoid naming collisions.
- 3) C is also middle level language.
- 4) There can be nested namespaces as well i.e. one namespace within another namespace. Std namespace has many other namespace inside it such as chrono, exception etc.
- 5) Whenever we place anything inside the double inverted commas, it is called as string.
"Hello"
Hello is a string.
- 6) There are various directives such as #include, using etc. & directives will be discussed in detail when we will be studying macros.
- 7) `char char = 'b';`
This gives an error as we can not use the reserved key word as the name of variable.
- 8) Some variable name conventions
→ meaningful name
→ we can use camel case.
numOfStudent } camel case

- Start with lowercase letter.
- Don't same variable name again & again. declare

```
int a = 5;
```

```
-----
```

```
-----
```

```
int a = 3; // Multiple declarations  
are not allowed.
```

- 9) Short → 2 bytes max number is $2^{16} - 1$

```
Short a =  $2^{16} - 1$ ;
```

```
Short b = 10;
```

```
Short sum = a + b; cout <<
```

What will be the o/p of \wedge sum?

$$2^{16} - 1 = 65535$$

$$65535 + 10 = 9 \text{ repeated}$$

cycle
is

- 10)

```
int a = 5;
```

```
char b = 'd';
```

```
int sum = a + b;
```

```
cout << sum;
```

$$\text{sum} = 5 + 100 = 105$$

output will be 105

```
float f = 2.0 + sum;
```

```
cout << f;
```

$$f = 2.0 + 105 = 107.0$$

here 0 will be ignored & hence answer will be 107

107.0 will also be correct answer

- 11)

```
float f = 2.7;
```

```
int n = 157;
```

```
int diff = n - f;
```

```
cout << diff;
```


$$157 - 2.7 = 154.3$$

Now only integer part will be selected and hence 154 is the right answer.

12) if ()

```
cout << "Hello" ;
```

The above will work if only single line is written.

```
if ( )
```

```
    cout << "Hello"
```

```
    cout << "Hi"
```

Hello will come under the scope of if & rest will not.

However it is good practice to use curly braces whether 1 line or multiple lines.