7/17/2021

FAQ:

**1/ why we can not use void main instead of int main?** some compilers supports void main and some compilers int main. Mostly int main() is used.

**2/ what is the meaning or use of return 0;** here and what will happen if we don't use return 0 in our code.

when a program is ending it should return 0. It is like a standard in C++ programs, it must be written. return 0; means program has terminated successfully.

**3/ What is #include.**

# is used as preprocessor directive. #include will ask the compiler to include the header file.

**4/**

Graphical user interface, text, application

Description automatically generated

**5/**

Graphical user interface, text, application

Description automatically generated

**6/ Data Types and Variable:**

* Primitive = provided by the compiler, provided by C++:
  + Integral: int, char = no decimal point
  + Bool
  + Floating point: float, double
* Userdefined:
  + Enum
  + Structure
  + Union
  + Class
* Derived:
  + Array
  + Pointer
  + Reference
* Modifiers:
  + Unsigned
  + Long:
* Table, letter

  Description automatically generated
* Variable = name given to a data type.

Text, letter

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

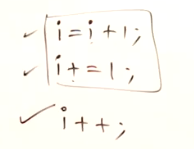
Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

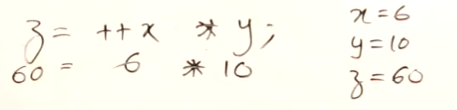
**6/ Increment and Decrement Operators:**

Text, letter

Description automatically generated

A picture containing text, whiteboard

Description automatically generated



**7/ Overflow:**

* Negatives number are stores in 2’s complement

Graphical user interface, text, application, email

Description automatically generated

* Note that bitwise operators works only on int and char types

Text, table

Description automatically generated

**8/ Bitwise Operator:**

AND, OR, XOR, NOT, >>, <<

**9/ Enum and Typedef – make the program more readable:**

* Enum is for representing constant without define them const int one by one

Text, letter

Description automatically generatedText, letter

Description automatically generatedText, letter

Description automatically generated

Text, letter

Description automatically generated

* Typedef allow to name the datatype

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated