1.3 Assignment

(1) Explain data types, variables and keywords in detail with example.

* Data Types:

A data type is a keywood that defines when type of data a variable can hold. For example the data type int can hold whole numbers, while data type flour can hold numbers with decimal points.

- →int: whole numbers such as 1,456, 322
- rumbers, spaces and symbols.
- → String: contains a set of character, such as "Hello", "How are you".
- + Frout: Contains numbers with a decimal point such as 9.1, 2.6552, 3.1425128
- 2.34 and 1.145
- Boolean: Contains only one of two possible values, such as true or faire.

* Vusiables:

Memory location in the computer, where you can store a value that can change

MY CHOICE

- Declaration: Specifying the type and name of the variable.
- Initalization: Assigning a value to the variable at the time of declaration त्याहर प्रवासाधः
 - int age = 22;

* Keywords: sapprotute make a sale as some

Keywords are reserved words in et+ that have special meaning to the compiled. They cannot be used us variable names,

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- auto	-continue	-private	
	1511- Exicud 11	old-Short wishere -	
	- Operator		
-explicit	-switch	- Case	
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-union	-cuten	-delete.	
-int	- public by	- static	
-viatual	-chuz	- elsc.	
-long	-degiska	- this was	
-void	-class	- enum	
-mutable	- return	-typedet	
-while.			

Date:	MY CHOICE
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(2) Describe boolean data type in detail with example.

The boolean data type is a data type that store one of two values; true or False. It's hamed after George bool, who developed boolean algebra, a system of logic that uses true and false values.

- In Ctt, the boolean dututypes is declared using the keyword bool. For example the following code declares a boolean variable name is-valid;

 bool is-valid;
- → Boolean variables can be used in conditional Statements to control the Flow of program.
- Boulean vastables cu also be used in muthematical expressions.
- include Liustreum>

using namuspace std;

int main 1){
bool is-valid = touc;

if Lis_valid) {

couter "The value is valid." ex and ;

3 clsef

cout «" The value is not valid! exendl;

return 0;

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