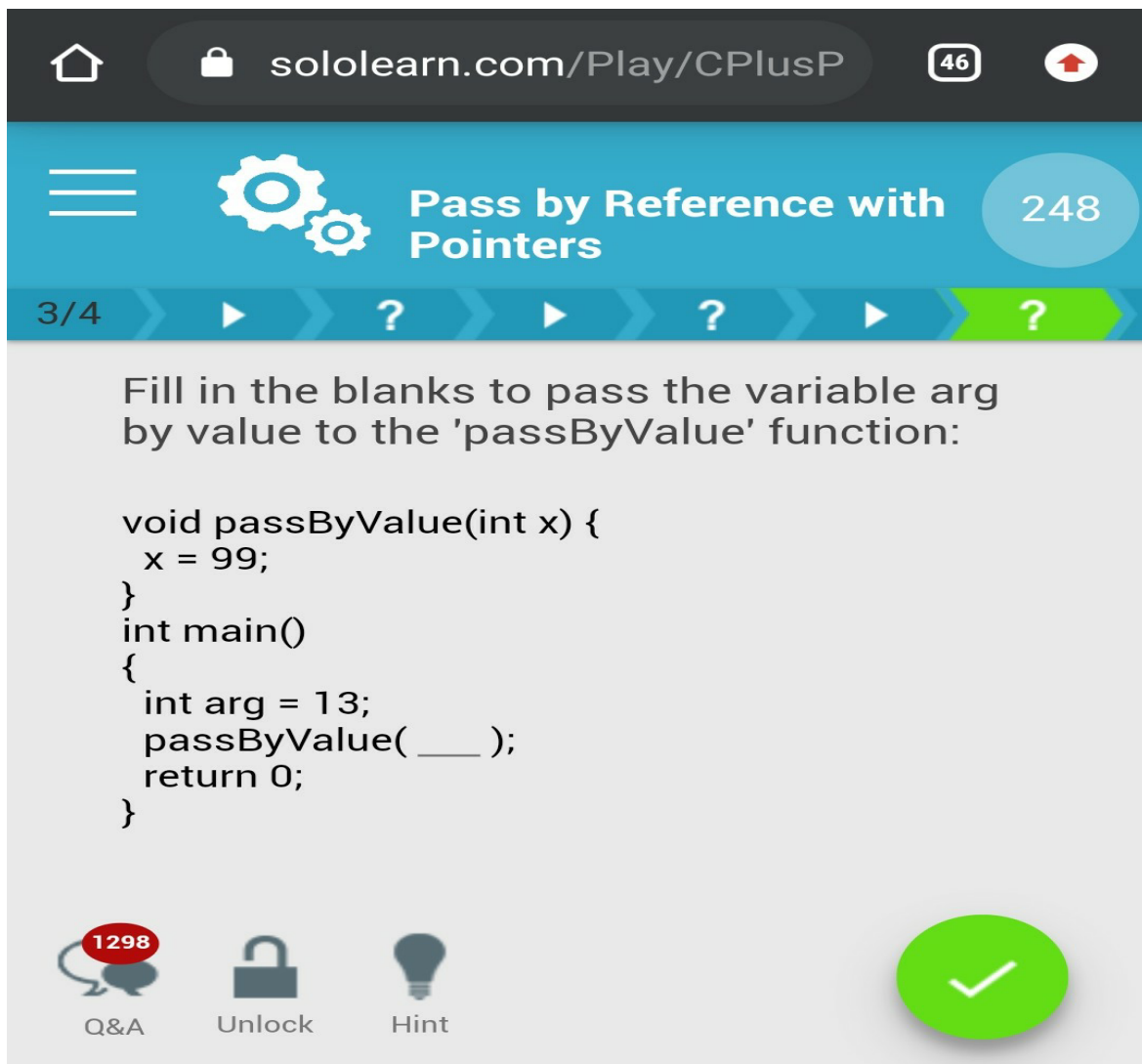


## DAILY ASSESSMENT FORMAT

Date:	25-06-2020	Name:	Abhishek
Course:	C++ Programming	USN:	4a17ec001
Topic:	<ul style="list-style-type: none"><li>• Data Types , Arrays , Pointers</li><li>• Functions</li></ul>	Semester & Section:	6 & 'A'
Github Repository:	Abhishek-online-courses		

### SESSION DETAILS

Image of session



## Report –

### Module 3 : Data Types , Arrays , Pointers

- **Data Types**

- ✓ The operating system allocates memory and selects what will be stored in the reserved memory based on the variable's data type.
- ✓ The data type defines the proper use of an identifier, what kind of data can be stored, and which types of operations can be performed.
- ✓ The basic data types are,
  1. int
  2. float
  3. double
  4. char
  5. string
  6. bool

- **Arrays**

- ✓ An array is used to store a collection of data.
- ✓ Instead of declaring multiple variables and storing individual values, we can declare a single array to store all the values.
- ✓ When declaring an array, specify its element types, as well as the number of elements it will hold.
- ✓ Example:

```
int b[] = {11, 45, 62, 70, 88};
```

- **Pointer**

- ✓ Pointer is a variable which holds the memory address of another variable.
- ✓ Every variable is a memory location, which has its address defined.
- ✓ That address can be accessed using the ampersand (&) operator (also called the address-of operator), which denotes an address in memory.

## Module 4 : Functions

- A **function** is a group of statements that perform a particular task.
- We can may define your own functions in C++.
- Using functions can have many **advantages**, including the following:
  - ✓ You can reuse the code within a function.
  - ✓ You can easily test individual functions.
  - ✓ If it's necessary to make any code modifications, you can make modifications within a single function, without altering the program structure.
  - ✓ You can use the same function for different inputs.

- **Define** a C++ function using the following syntax:

```
return_type function_name( parameter list )  
{  
    body of the function  
}
```

- **Function overloading** allows to create multiple functions with the same name, so long as they have different parameters.
- When overloading functions, the definition of the function must differ from each other by the types and/or the number of arguments in the argument list.
- There are two ways to pass arguments to a function as the function is being called. They are,
  - ✓ Pass by Value
  - ✓ Pass by Reference

