Name: NOOT - WI-APn Sagheet

Reg#: BCS 223020

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Date: 16-0ct-2023

Course: Object Otiented Plogramming

Section: 11'

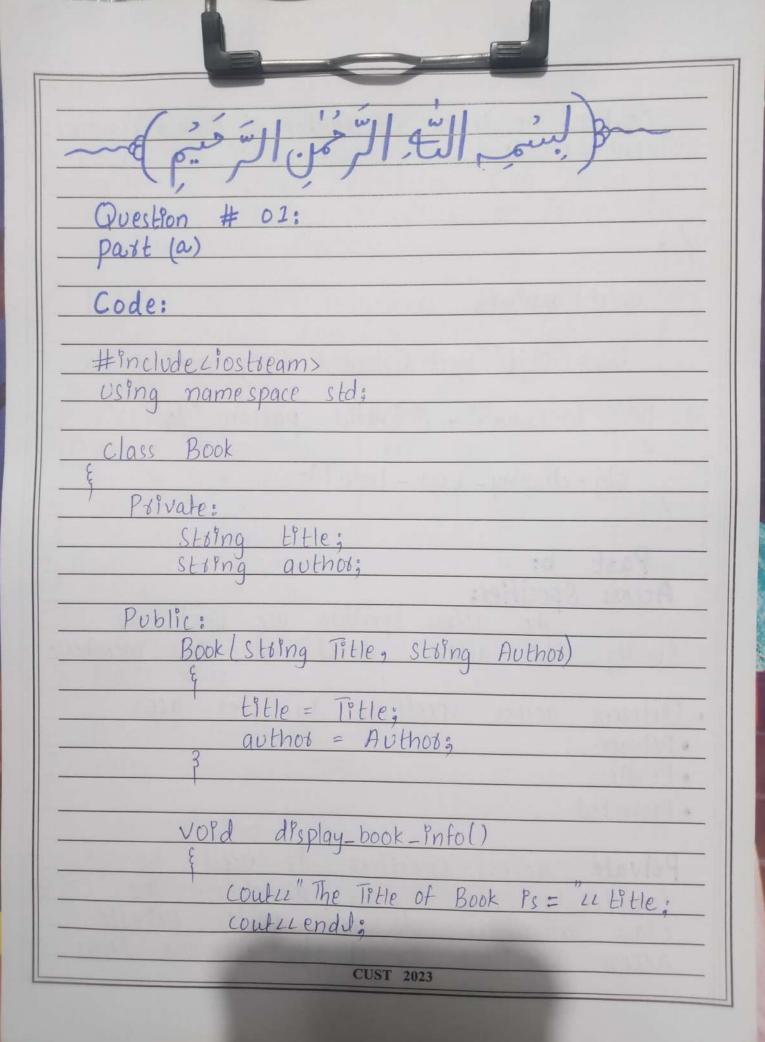
Assignment No:

Description: "Classes and Objects

Submitted to: Sit Adnan Jelani



Capital University of Science & Technology



Coutu" The Name Of Author of Book = "Lauthor; coutueends;
3;
Jord main()
Book Obj ("Object Oriented Programming in
C++", "David parssons");
obj. display-book-Pnfol);
Past b: Access Specifies: The access specifiess are used to Specify the access devel of class members.
• Diffetent access specifiets in C++ are; • Private- • Public.
• Ptotected.
Possule access specifies is used to Completely hide class members. The Class members declared with private access specifies cannot be accessed from CUST 2023

Protected: The class Protected access s accessed within to derived Sub classe Public: The class m public access spec from anywhere P	pecifies he class embess ifies co	declased an be accompany	the
Access	Public	Protected	private
· Access of class members	Yes	Yes	Yes
Pn Same class			
· Access of class members	Yes	Yes	No
Pn Sub classes.			
· Access of class members	Yes	No	No
Hom outside class		Challetine 147	1/
Question # 02: Past (a):			
# include l'ostbeam> using name space std:		Lati Ande	
Class Student Private:	Annual Control	*/4	
Pnt student - 1d;			The state of the s
- Storng name;			
11411/6	CUST 2023		

Public:
Student (Pnt student-ID, Storng Name)
student - id = student - ID;
name = Name;
3
1001 1001 20101
Vord display-info()
coutce" The name of Student = "11 name 1 cendl;
coutu" ID of a student = "Listudent-id;
cout_2 endl;
3.
vord marn()
E VOID THOM !
Student S1 (12345, "Putin");
S1. display-infol);
Student S2 (67890, "Joe");
S2. display-Info();
3
Past (b):
Importance of Destructor:
- A Destructor in a student class
may not be necessary in this specific

any dynamic resources (memory allocation) or perform any cleanup tasks.
Destructors are useful when you used besources that needs to be redeased (explicitly).
The purpose of Destructor is to ensure desources are clearly cleaned up when an object goes out of scope.
• C++ will generate a default Destructor, when we don't define a Custom destructor. • In this case, we are relying on a default
Destructor. why student-Pd private
Student-id is made private to hide the details of this data member, From external code.
• It ensures that the Poternal data of class "Student" object is not directly accessible or modified from outside class.
- Why display-info Public CUST 2023

easy for anyone to look at the Proformation about student nicely and in organized way. o It Ps a gate-way for accessing ob modifying data in Internal side of class, From outside. Enplain how.... why Pt's impostant in class design. · Public means everyone can access that part of class. · Private means only the class itself can use that patt. > These tules are important in class design because these access specifiess control's who can use or change the class data and functions. · This keeps out code safe. · It helps make Pt work consectly. Github account details: Github Email: chazeem 19800 @gmail.com Github ID: NOOR-UL-AIN-SAGHEER.