RIPHAH INTERNATIONAL UNIVERSITY, LAHORE CAMPUS.

SCHOOL OF COMPUTING & INNOVATION



OBJECT ORIENTED PROGRAMMING LAB 04

Date: 19-04-2022 Semester: SPRING 2022 Submission: In Lab CLASS: BSCS - 2B

Objectives:

- Continue with classes.
- Implementation of parameterized constructor.

Task 1:

Implement a class 'Student' that we already discussed in classes & labs.

The characteristics of class is given below:

Data Members:

name : string (Stores the student's name)
 sap : int (Stores the student's SAP Id)
 phone : string (Stores the student's phone number)

• dob : string (Stores the student's date of birth)

Functions:

- Default Constructor
 - Set all values according to your data i.e. name, sap, phone, date of birth.
 - Print a message "Default Constructor"
- Parameterized Constructor (string, int, string, string)
 - o Set all values according to the given parameters
 - Print a message "Parameterized Constructor # 1"
- Parameterized Constructor (string, string, string, int)
 - o Set all values according to the given parameters
 - o Print a message "Parameterized Constructor # 2"

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1. Create a pointer-based object 's1' with default constructor. Run code and write output below.
Write Output Here:
2. Create a pointer-based object 's2' with these values. Run code and write output below.
Name = Akhtar Saleem
SAP = 5639
Phone = 0300-1234567
DOB = 15/05/1995
Write Output Here:
3. Call print function with object 's1' and write output below:
Write Output Here:

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Destructor

void print()

o Print a message "Default Constructor"

o Prints all data members i.e. name, sap, phone, date of birth

Write a main function that does following and answer the following questions:

4. Call print function with object 's2' and write output below:
Write Output Here:
// Comment print() function before going ahead.
5. Write a code to run the destructor in .cpp file for both objects created 's1' and 's2'. Run the code and write output here.
Write Output Here:
// Comment all previous code in main() function before going ahead.
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6. Create a non-pointer-based object 's3' with default constructor. Run code and write output below.
Write Output Here:
7. Create a non-pointer-based object 's4' with these values. Run code and
write output below.
Name = Sultan Mahmood
SAP = 2294
Phone = 0312-7654321
DOB = 07/09/1994

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Write Output	Here:			
. Explain the b	ehavior of destructors tha	t how destructor	s are calling?	
		t how destructor	s are calling?	
3. Explain the b Write Output		t how destructor	s are calling?	

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