National University of Computer & Emerging Sciences

Computer Science Department

HOME WORK - ASSIGNMENT COVER SHEET

COURSE TITLE   Programming Fundamentals   COURSE CODE   CS1002 CS

INSTRUCTOR   DR. EJAZ AHMED & Others   TYPE   ☐   ☐   (Please tick)

                                                          Indiv.   Group

ASSIGNMENT NO   5

ASSIGNMENT   Loan Installments Payments using Arrays

HAND OUT DATE   1-DEC-2021   DUE DATE   07-DEC-2021

ESTIMATE TIME   10 Hours

ASSESSMENT CRITERIA (or attached)	% Mark
Instructions to Candidates: C++ Programming code with execution is required including all topics covered until Arrays (1-D in question-1 & with 2-D in question-2). String can be used using string library. Marking will include DEMO of the submitted code. Marks 40+10. Individual effort is required	

TO BE COMPLETED BY STUDENT (Who submitted)

NAME

ID NO

Time Taken

DECLARATION: I/We declare that this Home work is my/our group's own work

SIGNATURES (All members)

GRADE/ MARK AWARDED   ☐   COMMENTS

INSTRUCTOR'S SIGNATURE   DATE

Brief:

Question-1 (Marks 40):

A bank is providing loan to its customers. Customers will return back loan with installments without any INTEREST but penalty charges are needed to be paid.

Fine Rs. 100 per day will be charged if amount is paid after due date and 5% penalty will be charged on Due amount if pay less amount. A sample data of all transactions is as follows. All gray colored entries are displaying text.

Submitted by RollNos:							
Loan Amount		50000		No. of Installments			5
SNO	DueAmount	DueDate	PaidAmount	PaidDate	No of Days	Penalty	Balance
1	10000	05/01/2021	5000	04/01/2021	0	500	5000
2	15500	05/02/2021	15500	01/02/2021	0	0	0
3	10000	05/03/2021	5000	07/03/2021	2	700	5000
4	15700	02/04/2021	15700	02/04/2021	0	0	0
5	10000	02/05/2021	5000	02/05/2021	0	500	5000
6	5500	02/06/2021	5500	01/06/2021	0	0	0
Total	66700		51700			1700	15000
Charges	6700						
Do you want to continue: Y							
Loan Amount		40000		No. of Installments			4
SNO	DueAmount	DueDate	PaidAmount	PaidDate	No of Days	Penalty	Balance
1	10000	...					
...							
Total	45000		...			...	...
Charges	5000						
Do you want to continue: N							
Summary							
Total Collection: 111700							
Total Charges: 11700							

Question-2 (Marks 10):

Add 2-Dimensional array along with the one dimension array used in Question-1. Display the results in tabular form after entering data using 2-Dimensional array.