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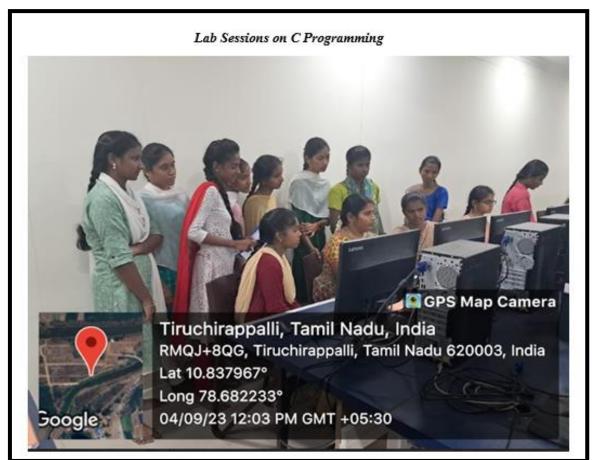
Key Indicator - 2.3 Teaching - Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Problem Solving – Bugs to Bytes

Program writing, execution, and debugging are fundamental aspects of technical education for students at various levels, from beginners to advanced learners. The process of program writing, execution, and debugging is often scaffolded through structured assignments, projects, and exercises. Students are also engaged in coding competitions and hackathons to apply their skills in practical settings and to further refine their abilities.

SAMPLE PROOFS



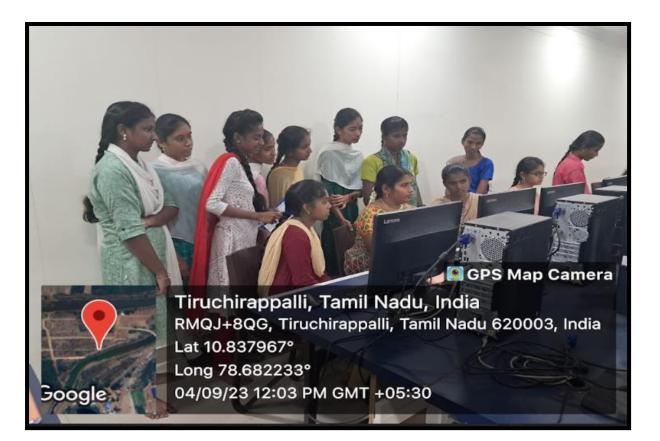


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Computer Science students engaged in debugging in their computer graphics lab session

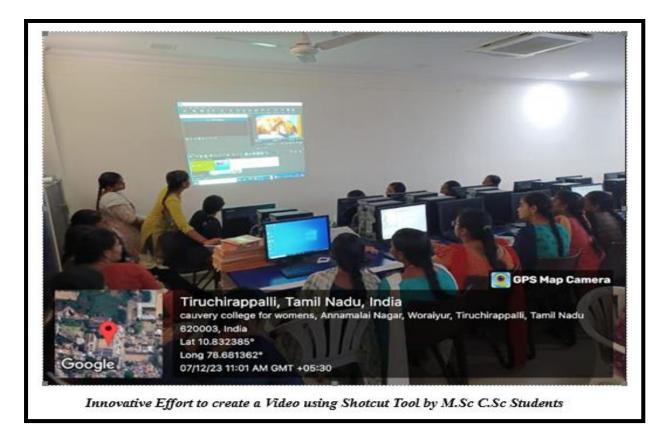


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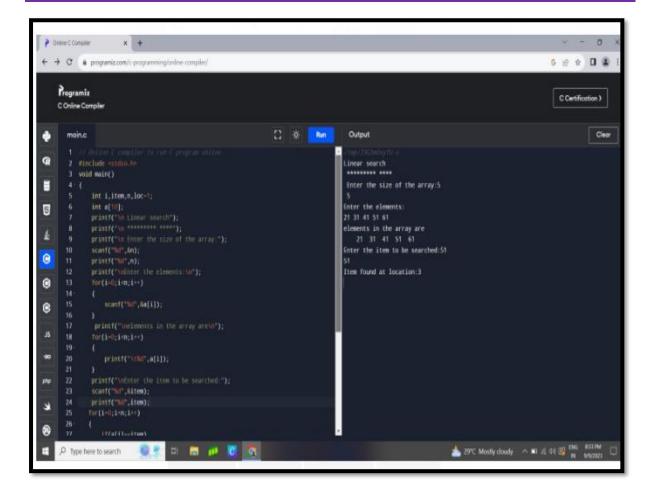
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DATASTRUCTURES LAB CODING

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	Programi C Online Ci				C Certification)
٠	main.c		C 🚸 🛤	Output	Ciecr
R		online provider to run contraction schole multiche id main()		Bubble Sort	
۲		int 1.j.k.temp.n:		Enter the size of the array:4	
8		<pre>int a[10]; print("No Bobble Sert");</pre>		Enter the element: 100 99 65 77	
4	8	<pre>printf("\n Enter the size of the array:"); printf("\n Enter the size of the array:");</pre>		Unsorted list 100 95 88 77	
0	10 11	<pre>scanf("%d",&n); printf("%d",n);</pre>		After pass 0: 99 88 77 100 After pass 1: 88 77 99 100	
	12	printf("buinter the elements(n"); for(1=0;1=0;1++)		After pass 2: 77 88 99 100 After pass 3: 77 88 99 100	
e				Arter pass 3: 77 66 77 100	
e	15 16	scanf('%i',&a(i));			
35	17 18	<pre>print("\nknorced List\n"); for(i=0;i=n;i=+)</pre>			
	10	Interpretents - 1			
-90	20	printframe.eIS132			
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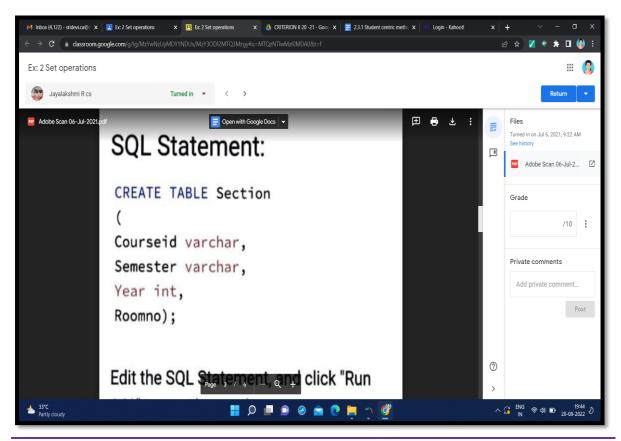
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DATASBASE MAMAGEMENT SYSTEMS LAB



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a to	BP0-301	Summen	2010	514
Color.	CS - 101	Fall	2007	101
-	CS- 201	sporting	2010	101
-155	phy-101	Fall	2009	100
	CS - 101	Fall	2009	514
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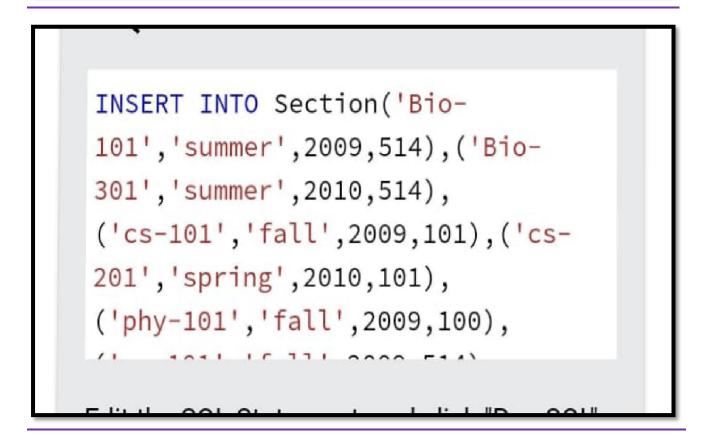


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INSERT INTO Section ('Bio-101', Summest, 2009, 514), ('Blo-301', 'Sommer 2010, 514), 6'cs-101' 'Fall', 2009, 101), ('cs-20', Spaing, 2010, 101), ('phy-101', 'fall', 2009, 100), ('cs-101', 'fall', 2009,514);





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Result:			
Number of R	ecords: 6		
courseid	semester	syear	roomno
Bio-101	summer	2009	514
BIO-301	Summer	2010	514
cs-101	spring	2010	101
cs-201	spring	2010	101
phy-101	fall	2009	1001
cs-101	fall	2009	514
1			

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🖻 jenova s.pdf 🗡 🖶 🛃	:	Files Turned in on Jul 5, 2021, 9:35 PM See history
CREATE TABLE Section		per jenova s.pdf 🛛
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Room no);		Add private comment
INSERT INTO Section		Post
VALUES (B_{10}^{-} B_{20}^{-} $B_{20}^$	⑦ >	
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AFTER PERFORMING THE KEY FRAME ANIMATION ON THE MAIN CHARACTER IMAGE



CREATE TH	BLE Section		
C Courseid	varchar,		
	varchan,		
Year 5			
Room no			
INSERT INT	o section		
VALUES (BIO	- 101', Summer	1, 2009 , 514)	•
	- 301', ' Summe		
	- 101', " yall ",		
	<pre>c - > < - ></pre>		
L'c	s = 201, spring	, 2010, 101)	2
	5 - 2012, Spring Phy - 1012, Jall?		
(•		, 2009, 1007,	
(•	Phy - 101?, " yall ? (cs - 101?, ' yall?	, 2009, 1007,	
(- (Phy - 101?, " yall ? (cs - 101?, ' yall?	, 2009, 1007,	
(• Select * FR	Phy - 101?, ' yall , _ ' cs - 101?, ' yall '	(انجر و مود ، مور به مود ،	
(• (SELECT * FR Councid	Phy - 101?, gall, . cs - 101?, yall, org [section] Semester	, 2009, 1007,	Roomno
(SELECT * FR Councid Bio - 101	Phy-101?, ' yall', (cs - 101?, ' yall') rorg [section] Semester Clummer	, 2009,000), , 2009,514) Yean 2009	Roomno 574
(* SELECT * FR Councid Bio - 10, Bio - 30;	Phy-101 ² , ' gall, (cs - 101 ² , ' gall, rorg [section] Semester Summer Summer	, 2009,3007, , 2009,3514) Yean 2009 2010	Roomno 574 514
(* SELECT * FR Councid Bio - 101 Bio - 30) CS - 101	Phy-101 ² , ' gall, (cs - 101 ² , ' gall, torg [section] Semester Summer Summer Gall	, 2009,3007, , 2009,3514) Yean 2009 2010 2010	Roomno 574 514 101



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SQL Statement:

```
CREATE TABLE Section
(
Courseid varchar,
Semester varchar,
Year int,
Roomno);
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

You have made changes to the database.

```
INSERT INTO Section
VALUES('Bio-
101','summer',2009,514),('Bio-
301','summer',2010,514),('Cs-
101','fall',2009,101),('CS-
201','spring',2010,101),('Phy-
101','fall',2009,100),('Cs-
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

You have made changes to the database. Rows affected: 6

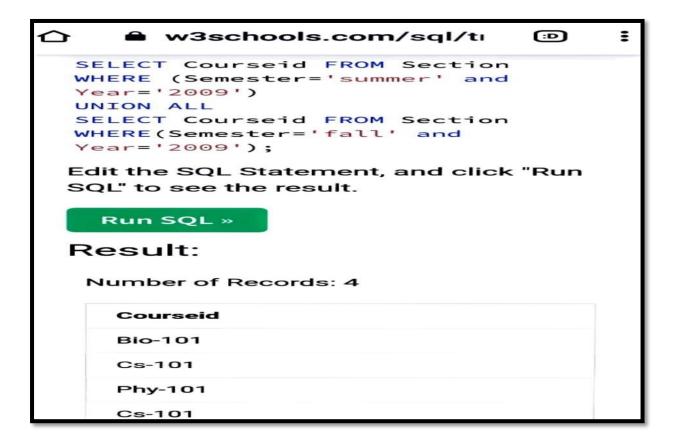


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SQL Statement:				
SELECT . FROM [Section	on]			
Run SQL = Result: Number of Records: 6				
Result:	Semester	Year	Reemno	
Result: Number of Records: 6	Semester summer	Year 2009	Roomno 514	
Result: Number of Records: 6 Courseid				
Result: Number of Records. 6 Courseid Bio-101	summer	2009	514	
Result: Number of Records: 6 Courseid Bio-101 Bio-301	summer	2009 2010	514 514	
Result: Number of Records: 6 Courseid Bio-101 Bio-301 Ca-101	summer summer fait	2009 2010 2009	514 514 101	



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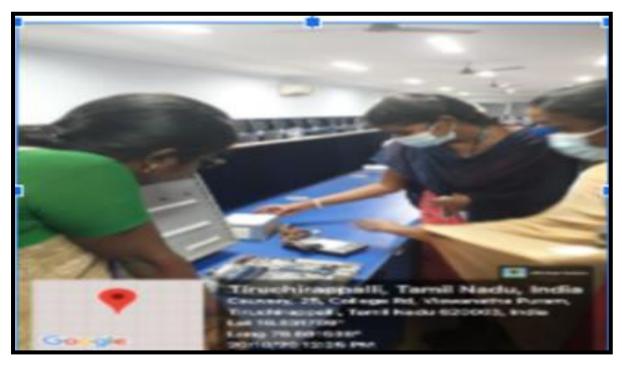
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TROUBLESHOOTING A PERSONAL COMPUTER



Bugs to Bytes are a valuable problem-solving methodology that helps developers identify, analyse, and resolve software bugs effectively. By following a structured approach, collaborating with stakeholders, and leveraging lessons learned, developers can improve software quality, enhance user experience, and drive continuous improvement in software development processes.