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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



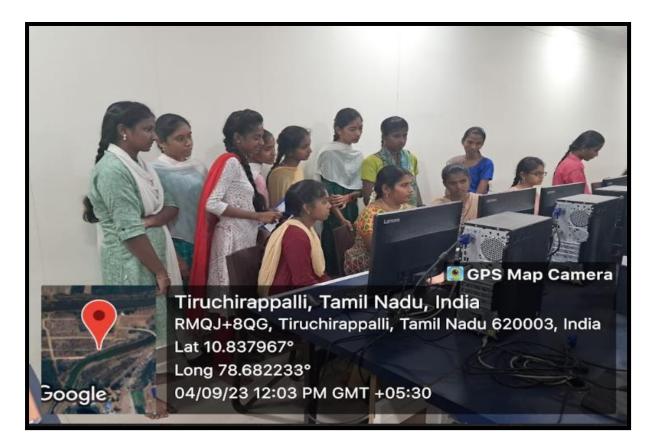


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Computer Science students engaged in debugging in their computer graphics lab session



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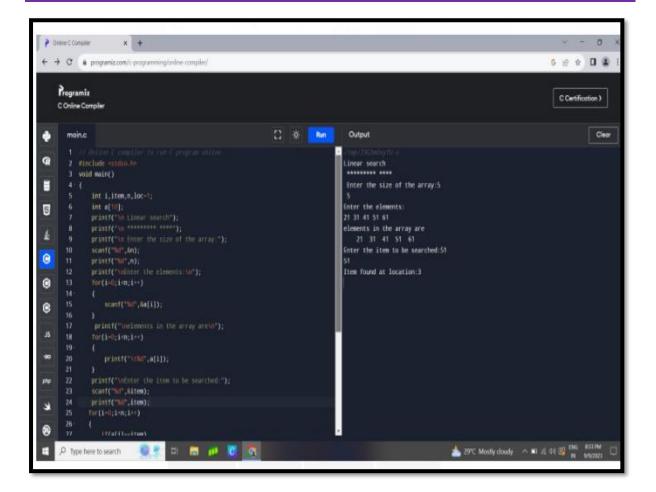
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DATASTRUCTURES LAB CODING

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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));			
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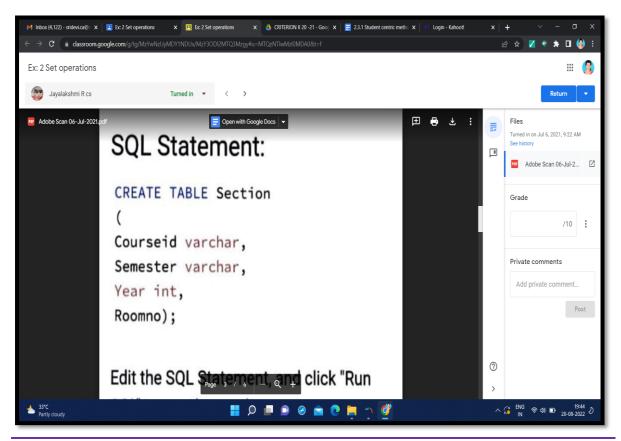
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DATASBASE MAMAGEMENT SYSTEMS LAB



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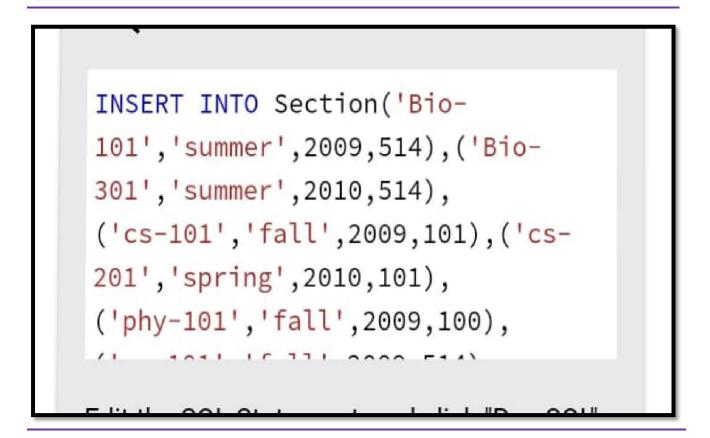


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INSERT INTO Section ('Bio-101', Summest, 2009, 514), ('Blo-301', 'Sommer 2010, 514), 6'cs-101' 'Fall', 2009, 101), ('cs-20', Spaing, 2010, 101), ('phy-101', 'fall', 2009, 100), ('cs-101', 'fall', 2009,514);





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Result:			
Number of R	ecords: 6		
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BIO-301	Summer	2010	514
cs-101	spring	2010	101
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cs-101	fall	2009	514
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AFTER PERFORMING THE KEY FRAME ANIMATION ON THE MAIN CHARACTER IMAGE



CREATE TH	BLE Section		
C Courseid	varchar,		
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Year 5			
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INSERT INT	o section		
VALUES (BIO	- 101', Summer	1, 2009 , 514)	•
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(SELECT * FR Councid Bio - 101	Phy-101?, ' yall', (cs - 101?, ' yall') rorg [section] Semester Clummer	, 2009,000), , 2009,514) Yean 2009	Roomno 574
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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

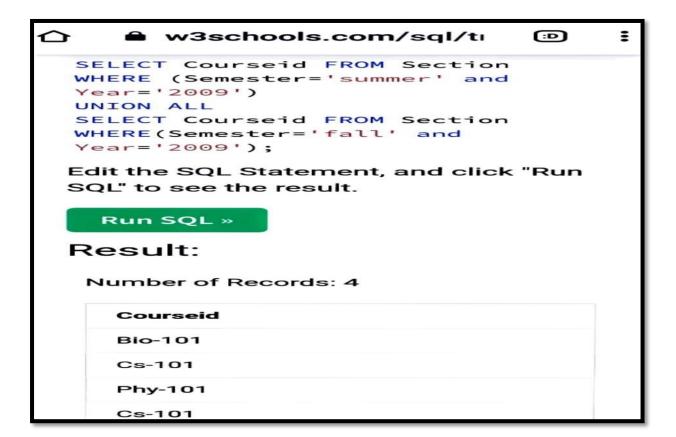


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SQL Statement:				
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Run SQL = Result: Number of Records: 6				
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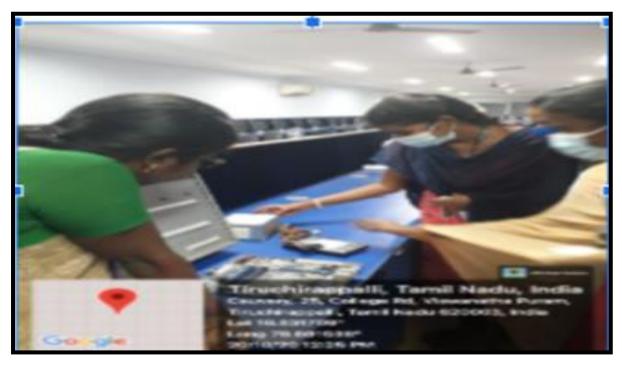
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TROUBLESHOOTING A PERSONAL COMPUTER



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.