### FLIPPED CLASSROOM ACTIVITY REPORT

**Topic: Lexical Analysis and Parsing** 

### **Department of Computer Science and Engineering**

### ☐ FLIPPED CLASSROOM ACTIVITY REPORT

**Topic:** Lexical Analysis and Parsing

**Date:** 27/03/2025 **Venue:** Room No. 410 **Instructor:** Mr. Vipin Rawat

**Total Teams:** 4

**Total Participants:** 14

### **Objective of the Activity:**

To enhance students' conceptual understanding and problem-solving skills related to **Lexical Analysis and Parsing** by using a student-centric flipped classroom model.

### ☐ Description of Activity:

Prior to the session, students were assigned learning materials including video lectures and reading resources on Lexical Analysis and Parsing. On the activity day, students collaborated in teams to discuss problems, share insights, and present their understanding through practical examples and discussions. The instructor facilitated and guided the discussion while allowing students to take the lead in exploring and teaching each other.

### ☐ Participants List:

- 1. Akhilesh Kumar Yadav
- 2. Guddu Kumar Manjhi
- 3. Faisal Khan
- 4. Deepak Kumar Ram
- 5. Deepak Kumar Pandit
- 6. Ashish Soni
- 7. Dhiraj Kumar
- 8. Abdul Quauee
- 9. Abhishek Kumar Singh
- 10. Ankit Kumar Singh
- 11. Aditya Anand
- 12. Gaurav Kumar
- 13. Aditya Kumar
- 14. Divyanshu Kumar

## Team - 04

- Akhilesh kumar yadow 220363610001
- 1 Guddu Kumar manshi
- O Faisal Khan

  Deepak Kuma
- Deepak kumar Rum

provide a sample code/problem

promblem-

Total = count + Rate \* 10

- 1) Deepak Kumar pandit
- (1) Abishek MODEN SONI
- (m) DhiraT KUMar
- (A) Adbul andmee

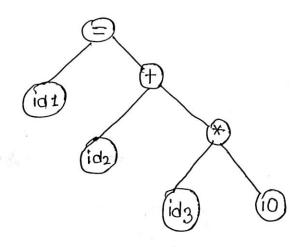
TO KEAN SENEURYON

- > The identifier (id1) total
- -> The Assignment symbol (=)
- -> The identifier (ide) (our
- -> The plus sign (+)
- -> The identifai (Ida)

The mularelication (x)

The constant number (10)

Team-3 (passe Tree Generation)
[Abhistrek Kr. Singh (2203630100006)
[2. Ankit Kr. Singh (2203630100029)
[3. Aditya Dagad. (2203630100011).



8 phonse Tree.

Task: Intermediate code generator

Team 4:

Chaurab kumar (2203630100066) Aditya kumar (2203630100012) Divyanshu Gaurav (2203630100063)

TOTTEL (OUN + + 8048 × 10

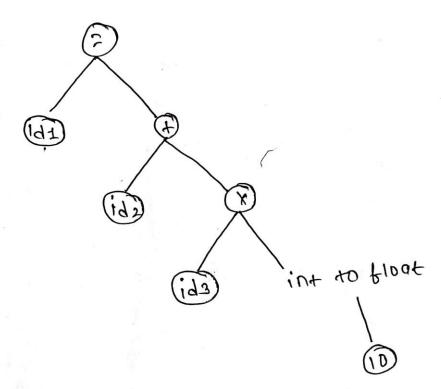


Fig: Semontic Pharse:

### **Attendance Sheet**



# AMBALIKA INSTITUTE OF MANAGEMENT & TECHNOLOGY, LUCKNOW Flipped Classroom

#### Attendance Sheet

	Attendance She	eet	
Course Name: Compile Branch: CF	Design	Date: 27/2/17	1
Branch: OSE		Year: 240	1
Section:			WILL RAWAT
Topic Name:	man /n		WILL DIENGIFF
оргина.	The state of	lexical As	cident
C- N- D-UN-	Conclude	4 And	fair
Sr. No Roll No.	Name of Student	' ' '	Sign
1 22035301000 18		mer Yaday	AL
2 2203630100066	Guddu Kumar		(outh.
3 2 203630 100065	faisal K	nan	tatul
4 2203630100059	Dorpak Ku	mor lem -	Toppe
8		mor Pandit	Morest
6		oni	
5	Dhingi K	uman	Ness
8	1 17		a Pyors
		laulec 05 Ti	- Char
		imer Strigh	an
lo 2203630100029		mor singh	thought
U 2203630100011	Adityan	Anand	Matri
12 7203130100066	Crusev K	cums	1.197012
13 , 20363 0100012		Luny	Altra
142 2036301000		u tern	12000
19 12 203638 1000	Mayara	a long	1
	0		-
			-
			1
		rd.	1
	1.4		
	***	_	
		_	
	1		
	The contract of		
	1/1		
			_
	-		
			,

## **Glimpses of Roleplay Activity**











### **EVALUATION OF THE ACTIVITY**



### AMBALIKA INSTITUTE OF MANAGEMENT & TECHNOLOGY, LUCKNOW

Flipped Classroom Evaluation Sheet

		10.	500	1 Evalu	ation She	ate: 2	77	128						
ourse Nam	ne: CM	pica	Doulg	4	Y	ear:		128						
ranch: ection:	1	· A	1		In	structor Name	e:	VIPIN	LAL	2A7_			ĺ	
opic Name	ie: LCXIC	w H	rayars	Elans	My_									
				1	<u>d</u>			Pre-Class	Classroom	Problem	Total		1	
. No Rol	oll No.	Group		Name of Stude	it		- 1	Preparatio		Solving Skills (5)	Score(15)	Remarks		
				AKLI	.a. F	Mark		n (5)	(5)	3KIII3 (3)			1	
1		1.		HKKIL	2 4	hank	4			0	13	11	1	
1325000000000000000000000000000000000000		10	U)	14	laul	KLEL	1	Ч	4	5	13	01	=	
5		-	5	Dece	ut	chin	. +						1	
2		-		Peep	ak t	Spring	-/_	5	-		14	Te	1	
5		-	721	B	our	KC		>	5	9	11	-	4	
3				9	du	10 ( 0 1	. 1			-		_	-	
5		- f.	-	1	spel	- E1 81V	7	5	5	2	13	7	1	
12		10	1 - F	Add	Ut	acid	1-4					/	4	
12			Ċ	178	5,45	FEY		-		-	10		4	
13		16	24 7	Hou	TUH.	KV	1 4 -	13	4	13	10		1	
11		+	1	The state of the s	VIII		7						4	
-										+	-		4	
		-											-	
-+	$\overline{}$									-	-	-	$\dashv$	
									_				$\exists$	
		-						1					$\exists$	
-		_									-		-	
+									-	- 1				
						_		+-					$\exists$	
		-	_									+	$\dashv$	
-			1					_	-	-				
-			1					_	_				$\supset$	
				$\overline{}$								-		
									_	-	_	_	$\overline{}$	
-								_	_					
					_									
				_	-/								$\overline{}$	
-		-								_	-			
-						_			_					
							1							
		_		_			_				_	-		
-		_						_		_	_	_		
_								-						
_								_	1					
												_		
		_								_				
_		-				3 2 2 2		_	_					
-								_						
+	λ											-	$\overline{}$	
+		1//		_							n with Dat	-		
		2							Ins	structor Sig	in with Dat	1		
	DD sign with Date	,7)									1	V		/
HO	1 / 0	,									1	,		1
но										~	11/2	1	1	7,7
но	XOU													
но	370										•		121	-
но	1000										•	1-	131	1
но	\$70°										•	à	131	75

### $\square$ Outcomes Achieved:

- Developed clear understanding of tokenization, regular expressions, and finite automata in lexical analysis.
- Understood different types of parsers: top-down and bottom-up parsing.
- Improved collaboration and communication skills among students.
- Promoted peer-to-peer learning and active participation.

### ☐ Instructor's Remarks:

The flipped classroom strategy effectively engaged students in active learning. All participants contributed well, and the team-based discussions allowed a deeper understanding of the subject matter. Looking forward to similar engaging sessions in future topics.