'C' Language Training Evaluation Form

Employee Name: Sahu Shreshtha Kumar Designation: Embedded Engineer

Start Date: 3rd September End Date: 12th September

#	Session	Module	Start Date	End Date	Total Days	Score	MAX. SCORE
1.	Session 1	Scalar data types Operators	5rd September	5th September	1.5		**10**
		Control flow Loops	5rd September	5rd September			**10**
		Functions	5th September	6th September			**5**
2.	Session 2	Pointers	6th September	6th September	2		**15**
		Pointer array	6th September	6th September			**15**
		Pointer to pointer	6th September	7th September			**15**
		Multidimensional Array	7th September	7th September			**10**
3.	Session 3	Structures	8th September	8th September	2.5		**10**
		File operations	9th September	12th September			**10**
	Total ➔				**6**		**100**

Evaluation Criteria

Session 1, 2 and 3 will be evaluated based on exercise and overall understanding of section. The evaluation criteria are described below.

1. Coding Style - 30 %
2. Code - 30 %
3. Timely completion - 30 %
4. Mentor's feedback - 10 %

Signature of Mentor: _____ Date: _____

C Training (6 days)

In this phase you will go through the C training. You will explore and understand the details of C language.

All the Exercises are from the book '***The C Language Programming Language, by Kernighan and Ritchie.***'

Sr. No.	Task Name	Status
1.	**Scalar Data Types** • Numbers – Integer, Float, Octal and Hex Notation. • Constants and escape sequences. **Operators** • Arithmetic Operators • Relational and Logical operators • Increment and decrement operators • Bit-wise operator • Precedence and order of evaluation • Practical Exercises · Exercise 2.4, 2.5.	
2.	**Control Flow** • If-else. Else-if, Exercise 3.1 • Switch Exercise 3.2. **Loops** • While and For, Exercise atoi function (topic 3.5) • Do-While, Exercise itoa function (topic 3.6) • Break-Continue	
3.	**Functions** • Basics of functions • Scope rule • External variables Exercise 4.4, 4.5 • Header files • Static variable Exercise 4.11 • Register variable • Recursion Exercise 4.12	
4.	**Pointers** • Pointers and Addresses • Pointers and function argument Exercise 5.1 • Pointers and arrays	
5.	**Pointers** • Address arithmetic Exercise 5.3, 5.4	

	Pointer arrays, pointer to pointer Exercise 5.7 **Multidimensional array** Exercise 5.8	
6.	**Structure** • Basics of structures • Structure and functions • Array of structure · Exercise 6.1 **Structure + Pointer** • Pointers to structures • Self-referential Structures • Type def • Unions • Bit-fields	
7.	• Command line argument Exercise 5.11 • Standard input and output • Formatted output-Printf Exercise 7.3 • Formatted input-Scanf Exercise 7.5 • File Access • File open(fopen) • File read(fread) • File write(fwrite) • File Close(fclose) • File print(fprintf) • File Scan(fscanf) • File seek • File line in(fgets) • File line out(fputs) • File length Exercise 7.6, 7.7	