

Certificate

This is to certify that Mr. / Ms. _____

Studying in semester _____, class _____ of Information and Communication Technology

having enrollment no. _____ has satisfactorily completed his / her term work in the

Subject **Introduction to Computer Programming (01CT1101)**, for the term ending in the
Month of _____, year _____.

Date: _____

Faculty in Charge

Name: Prof. Suhag Baldaniya

Signature:

Head of Department

Name: Prof. Chandrasinh Parmar

Signature:

Academic Year	2024-25
Subject:	Introduction to computer programming – (01CT1101)
Program and Semester:	B. Tech. 1 st Semester
Course Instructor:	Prof. Suhag Baldaniya
Student Name:	

List of Experiments

Sr No.	Experiment	Page No.	Date	Signature
1	Write a C program to Print "C Programming".			
2	Write a C program to Print Address on screen.			
3	Write a C program to Input two numbers and prints its square and cube.			
4	Write a C program to Input two numbers and prints its Addition, Subtraction, Multiplication, and Division.			
5	Write a C program to Verify the formula $l=(c+d)*(g+h)$.			
6	Write a C program to Verify the formula $a=p*(1+(r/100)/n)-p$.			
7	Write a C program to count the simple interest.			
8	Write a C program to Calculate the area of circle and triangle.			
9	Write a C program to Input a Rupees and prints its value converted into Dollar			
10	Write a C program to enter temperature in Celsius and convert it into Fahrenheit.			
11	Write a C program to enter length in centimeter and convert it into meter and kilometer.			
12	Write a C program to convert days into years, weeks.			
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15	Write a C program to find maximum from two numbers.			
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18	Write a C program to check whether a character is alphabet or not.			
19	Write a C program to input month number and print number of days in that month.			
20	Write a C program to input angles of triangles and check whether triangle is valid or not.			
21	Write a C program to input marks of five subjects Physics, Chemistry, Biology, Maths and Computer. Calculate percentage and grade according to following.(Using if else ladder) Percentage $\geq 90\%$: Grade A			

	Percentage $\geq 80\%$: Grade B Percentage $\geq 70\%$: Grade C Percentage $\geq 60\%$: Grade D Percentage $\geq 40\%$: Grade E Percentage $< 40\%$: Grade F			
22	Write a C program to input basic salary of an employee and calculate its gross salary according to following.(Using if else ladder) Basic Salary ≤ 10000 : HRA = 20%, DA = 80% Basic Salary ≤ 20000 : HRA = 25%, DA = 90% Basic Salary > 20000 : HRA = 30%, DA = 95%			
23	Write a program that interchange or swap the values of 2 variables with and without using 3rd Variable.			
24	Write a C program to Get a character from user and print that is it vowel or consonant.			
25	Write C program to print name of Day of week using switch case.			
26	Write a C program to generate grade system. <ul style="list-style-type: none"> • If student has 70% or more than 70% then DISTINCTION. • If student has percentage between 60 and 69 then FIRST CLASS. • If student has percentage between 50 and 59 then SECOND CLASS. • If student has percentage between 40 and 49 then PASS CLASS. • If student has percentage less than 40 then FAIL. 			
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94	Write a C program to Print pattern like follow. *****			

	<p>***** ***** ***** *****</p>			
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100	<p>Write a C program to Print pattern like follow. 00000 11111 00000 11111 00000</p>			
101	<p>Write a C program to Print pattern like follow. 01010 01010 01010 01010</p>			
102	<p>Write a C program to Print pattern like follow. 11111 22222 33333 44444</p>			

	55555			
103	Write a C program to Print pattern like follow. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25			
104	Write a C program to Print pattern like follow. 11111 2222 333 44 5			
105	Write a C program to Print pattern like follow. 5 44 333 2222 11111			
106	Write a C program to Print pattern like follow. 5 54 543 5432 54321			
107	Write a C program to Print pattern like follow. 12345 1234 123 12 1			
108	Write a C program to Print pattern like follow. 54321 4321 321 21 1			
109	Write a C program to Print pattern like follow. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30			
110	Write a C program to Print pattern like follow. 1 22 333 44444 555555			
111	Write a C program to Print Pascal triangle.			

112	Write a C program to print following pattern up to N rows 5 54 543 5432 54321			
113	Write a C program to print following pattern up to N rows 1 10 101 1010 10101			
114	Write a C program to Accept 5 numbers in an array and display it.			
115	Write a C program to calculate sum of array elements.			
116	Write a C program to Accept 10 numbers in an array, sort it and display it.			
117	Write a C program to find maximum and minimum number from array.			
118	Write a C program to find sum of even numbers from array list.			
119	Write a C program to copy all elements from one array to another array.			
120	Write a C program to insert an element into an array.			
121	Write a C program to delete an element from an array.			
122	Write a C program to find reverse of an array.			
123	Write a C program to find duplicate numbers from an array.			
124	Write a C program to Accept 9 numbers in form of matrix. (3 X 3 matrix) display it			
125	Write a C program to perform addition between two matrices.			
126	Write a C program to perform multiplication between two matrices.			
127	Write a C program to perform subtraction between two matrices.			
128	Write a C program to find transpose of matrix.			
129	Write a C program to find length of a string.			
130	Write a C program to copy one string to another string.			
131	Write a C program to concatenate two strings.			
132	Write a C program to compare two strings.			
133	Write a C program to convert lowercase string to uppercase.			
134	Write a C program to convert uppercase string to lowercase.			
135	Write a C program to find total number of alphabet, digits or special character in a string.			
136	Write a C program to count total number of vowels and consonant in a string.			
137	Write a C program to count total number of words in a string.			
138	Write a C program to print reverse of a string.			
139	Write a C program to check whether a string is palindrome or			

	not.			
140	Write a C program to remove blank space in a string.			
141	Write a C program to create, initialize and use pointers.			
142	Write a C program to add two numbers using pointers.			
143	Write a C program to swap two numbers using pointers.			
144	Write a C program to copy one array to another using pointers.			
145	Write a C program to swap two arrays using pointers.			
146	Write a C program to reverse an array using pointers.			
147	Write a C program to find length of string using pointers.			
148	Write a C program to copy one string to another string using pointers.			
149	Write a C program to concatenate two strings using pointers.			
150	Write a C program to compare two strings using pointers.			
151	Write a C program to find reverse of a string using pointers.			
152	Write a C program to find cube of any number using function.			
153	Write a C program to find diameter, circumference and area of circle using function.			
154	Write a C program to find maximum and minimum between two numbers using function.			
155	Write a C program to check whether a number is even or odd using function.			
156	Write a C program to check whether a number is prime, Armstrong or perfect number using function.			
157	Write a C program to find factorial of any number using recursion.			
158	Write a C program to find power of any number using recursion.			
159	Write a C program to find sum of natural numbers between 1 to n using recursion.			
160	Write a C program to print reverse of a number using recursion.			
161	Write a C program to check whether number is palindrome or not using recursion.			
162	Write a C program to find sum of digits of given number using recursion.			
163	Write a C program to find GCD of two numbers using recursion.			
164	Write a C program to find LCM of two numbers using recursion.			
165	Write a C program that shows concept of pointer.			
166	Write a C program to swap two values (Pass by reference)			
167	Write a C program to Get a string from user and display it in lower case and upper case			
168	Write a C program to Create a user define function named ASCII which accept one argument (of character type) and display ASCII value of that character			
169	Write a C program that take input of name of 10 students with gets () and just print them with puts () function.			
170	Write a C program that take input paragraph of 10 lines. Count total no of word and total no of characters (Excluding blank spaces).			

171	Write a C program to Create a structure named student that have member variable roll no, name, m1, m2, m3, sum, average, and grade. Program ask for roll no, name, m1, m2, m3 and calculate sum, average and grade.			
172	Write a C program to Create a structure named EMP that have member variables employee no, employee name, basic salary, DA, HRA, TA , PF and Gross Salary			
173	Write a C program to create a file and write contents, save and close the file.			
174	Write a C program to copy one file to another file.			
175	Write a C program to add data into an existing file.			
176	Write a C program to merge two files into third file.			
177	Write a C program to count characters, words and lines in a text file.			
178	Write a C program to remove a word from text file.			



1

Write a C program to Print "C Programming".



2

Write a C program to Print Address on screen.



3

Write a C program to Input two numbers and prints its square and cube.



- | | |
|---|--|
| 4 | Write a C program to Input two numbers and prints its Addition, Subtraction, Multiplication, and Division. |
|---|--|



5

Write a C program to Verify the formula $I=(c+d)*(g+h)$.



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Write a C program to Verify the formula $a = p * (1 + (r/100)/n) - p$.



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Write a C program to count the simple interest.



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Write a C program to enter temperature in Celsius and convert it into Fahrenheit.



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Write a C program to Input 3 number and print the maximum among them.



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Write a C program to check whether a character is alphabet or not.



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Write a C program to input angles of triangles and check whether triangle is valid or not.



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| 21 | <p>Write a C program to input marks of five subjects Physics, Chemistry, Biology, Maths and Computer. Calculate percentage and grade according to following.(Using if else ladder)</p> <p>Percentage $\geq 90\%$: Grade A
Percentage $\geq 80\%$: Grade B
Percentage $\geq 70\%$: Grade C
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|----|---|



- | | |
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| 22 | <p>Write a C program to input basic salary of an employee and calculate its gross salary according to following.(Using if else ladder)</p> <p>Basic Salary \leq 10000 : HRA = 20%, DA = 80%</p> <p>Basic Salary \leq 20000 : HRA = 25%, DA = 90%</p> <p>Basic Salary $>$ 20000 : HRA = 30%, DA = 95%</p> |
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23

Write a program that interchange or swap the values of 2 variables with and without using 3rd Variable.



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24

Write a C program to Get a character from user and print that is it vowel or consonant.



25

Write C program to print name of Day of week using switch case.



--	--



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Write a C program to generate grade system.(switch case)

- If student has 70% or more than 70% then DISTINCTION.
- If student has percentage between 60 and 69 then FIRST CLASS.
- If student has percentage between 50 and 59 then SECOND CLASS.
- If student has percentage between 40 and 49 then PASS CLASS.
- If student has percentage less than 40 then FAIL.



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Write a C program to enter a number and print it into words using for loop.



94

Write a C program to Print pattern like follow.

```
*****  
*****  
*****  
*****  
*****
```



95

Write a C program to Print pattern like follow.

```
*  
**  
***  
****  
*****
```



96

Write a C program to Print pattern like follow.

```
*****  
****  
***  
**  
*
```



97

Write a C program to Print pattern like follow.

```
*  
**  
***  
****  
*****
```



98

Write a C program to Print pattern like follow.

```
*****  
*****  
***  
**  
*
```




99 Write a C program to Print pattern like follow.

```
11111
11111
11111
11111
11111
```



100	Write a C program to Print pattern like follow. 00000 11111 00000 11111 00000
-----	--



101	Write a C program to Print pattern like follow. 01010 01010 01010 01010
-----	---



Write a C program to Print pattern like follow.

11111

22222

33333

44444

55555



103

Write a C program to Print pattern like follow.

```
1  2  3  4  5
6  7  8  9  10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
```



104	Write a C program to Print pattern like follow. 11111 2222 333 44 5
-----	--



105	Write a C program to Print pattern like follow. 5 44 333 2222 11111
-----	--



106	Write a C program to Print pattern like follow. 5 54 543 5432 54321
-----	--



107	Write a C program to Print pattern like follow. 12345 1234 123 12 1
-----	--



108	Write a C program to Print pattern like follow. 54321 4321 321 21 1
-----	--



109

Write a C program to Print pattern like follow.

2

4 6

8 10 12

14 16 18 20

22 24 26 28 30



110

Write a C program to Print pattern like follow.

1

22

333

44444

555555



111

Write a C program to Print Pascal triangle.



112

Write a C program to print following pattern up to N rows.

5

54

543

5432

54321



113

Write a C program to print following pattern up to N rows.

```
1
10
101
1010
10101
```



114

Write a C program to Accept 5 numbers in an array and display it.



115

Write a C program to calculate sum of array elements.



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116

Write a C program to Accept 10 numbers in an array, sort it and display it.



--	--



117

Write a C program to find maximum and minimum number from array.



--	--



118	Write a C program to find sum of even numbers from array list.
-----	--



--	--



119

Write a C program to copy all elements from one array to another array.



--	--



120

Write a C program to insert an element into an array.



--	--



121

Write a C program to delete an element from an array.



--	--



122

Write a C program to find reverse of an array.



--	--



123

Write a C program to find duplicate numbers from an array.



--	--



124

Write a C program to Accept 9 numbers in form of matrix. (3 X 3 matrix) display it.



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--	--



125

Write a C program to perform addition between two matrices.



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--	--



126

Write a C program to perform multiplication between two matrices.



--	--



--	--



127

Write a C program to perform subtraction between two matrices.



--	--



--	--



128	Write a C program to find transpose of matrix.
-----	--



--	--



129

Write a C program to find length of a string.



130

Write a C program to copy one string to another string.



131	Write a C program to concatenate two strings.
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132

Write a C program to compare two strings.



133

Write a C program to convert lowercase string to uppercase.



134

Write a C program to convert uppercase string to lowercase.



135

Write a C program to find total number of alphabet, digits or special character in a string.



136

Write a C program to count total number of vowels and consonant in a string.



137

Write a C program to count total number of words in a string.



138	Write a C program to print reverse of a string.
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139

Write a C program to check whether a string is palindrome or not.



140

Write a C program to remove blank space in a string.



141	Write a C program to create, initialize and use pointers.
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142

Write a C program to add two numbers using pointers.



143

Write a C program to swap two numbers using pointers.



144

Write a C program to copy one array to another using pointers.



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145

Write a C program to swap two arrays using pointers.



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146

Write a C program to reverse an array using pointers.



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147

Write a C program to find length of string using pointers.



148

Write a C program to copy one string to another string using pointers.



149

Write a C program to concatenate two strings using pointers.



150

Write a C program to compare two strings using pointers.



151

Write a C program to find reverse of a string using pointers.



152

Write a C program to find cube of any number using function.



153

Write a C program to find diameter, circumference and area of circle using function.



154

Write a C program to find maximum and minimum between two numbers using function.



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155

Write a C program to check whether a number is even or odd using function.



156

Write a C program to check whether a number is prime, Armstrong or perfect number using function.



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157

Write a C program to find factorial of any number using recursion.



158

Write a C program to find power of any number using recursion.



159

Write a C program to find sum of natural numbers between 1 to n using recursion.



160

Write a C program to print reverse of a number using recursion.



161

Write a C program to check whether number is palindrome or not using recursion.



162

Write a C program to find sum of digits of given number using recursion.



163

Write a C program to find GCD of two numbers using recursion.



164

Write a C program to find LCM of two numbers using recursion.



165

Write a C program that shows concept of pointer.



166

Write a C program to swap two values (Pass by reference).



167

Write a C program to Get a string from user and display it in lower case and upper case.



168

Write a C program to Create a user define function named ASCII which accept one argument (of character type) and display ASCII value of that character.



169

Write a C program that take input of name of 10 students with gets () and just print them with puts ()function.



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170

Write a C program that take input paragraph of 10 lines. Count total no of word and total no of characters (Excluding blank spaces).



171

Write a C program to Create a structure named student that have member variable roll no, name, m1, m2, m3, sum, average, and grade. Program ask for roll no, name, m1, m2, m3 and calculate sum, average and grade.



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172

Write a C program to Create a structure named EMP that have member variables employee no, employee name, basic salary, DA, HRA, TA , PF and Gross Salary.



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173

Write a C program to create a file and write contents, save and close the file.



174

Write a C program to copy one file to another file.



175

Write a C program to add data into an existing file.



176

Write a C program to merge two files into third file.



177

Write a C program to count characters, words and lines in a text file.



178

Write a C program to remove a word from text file.



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