

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:	
	Hard of Domestin and
Faculty in Charge	Head of Department
Name: Prof. Suhag Baldaniya	Name: Prof. Chandrasinh Parmar
Signature:	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.			
13	Write a C program to Input a Number of Chairs and its Total Cost			
	and Prints the Cost of Each chair.			
14	Write a C program to Enter value and check it is less, equal or			
14	greater than zero.			
15	Write a C program to find maximum from two numbers.			
16	Write a C program to Input 3 number and print the maximum			
10	among them.			
17	Write a C program to check whether a year is leap year or not.			
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 >= 90% : Grade A			



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	Percentage >= 80% : Grade B		
	Percentage >= 70% : Grade C		
	Percentage >= 60% : Grade D		
	Percentage >= 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.		
	 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. 		
27	Write a C program to input month number and print number of		
21	days in that month using switch		
	Case.		
28	Write a C program to print 1 ton using while loop.		
29	Write a C program to Print even numbers from 1to n using while		
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30	Write a C program to Print N to 1 using while loop.		
31	Write a C program to Print 1,2,4,8,16,32,64 using while loop.		
32	Write a C program to Print the total of 1-2+3-4+5-6+7-8+9-10.		
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35	Write a C program to Accept one number from user and find if it		
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38	Write a C program to Accept two numbers and find LCM of two		
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	series) using while loop.		
40	Write a C program to Display sum of 1! + 2! + 3! + 4! + 5! Up to n		



	terms using while loop.		
41	Write a C program to find first and last digit of given number		
41	using while loop.		
42	Write a C program to print reverse of the number using while		
72	loop.		
43	Write a C program to print product of digits of given number		
45	using while loop.		
44	Write a C program to print product of first and last digit of		
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00	do while loop.		
69	Write a C program to find odd numbers between 1 to n using do		
03	while loop.		
70	Write a C program to find sum of even numbers between 1 to n		
, 0	using do while loop.		
71	Write a C program to enter a number and print it into words		
, _	using do while loop.		
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04	for loop.		
91	Write a C program to find odd numbers between 1 to n using for		
0.2	loop.		
92	Write a C program to find sum of even numbers between 1 to n		
02	using for loop.		
93	Write a C program to enter a number and print it into words		
0.4	using for loop.	-	
94	Write a C program to Print pattern like follow. *****		



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95	Write a C program to Print pattern like follow.			
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96	Write a C program to Print pattern like follow.			

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	*			
97	Write a C program to Print pattern like follow.			
37	*			
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98	Write a C program to Print pattern like follow.			

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	*			
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				
101	Write a C program to Print pattern like follow. 01010			
	01010			
	01010			
	01010			
102	Write a C program to Print pattern like follow.			
102	11111			
	22222			
	33333			
	44444			
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103	Write a C program to Print pattern like follow.		
103			
	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.		
107	12345		
	1234		
	123		
	12		
	1		
108	Write a C program to Print pattern like follow.		
100	54321		
	4321		
	321		
	21		
100	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.		
110	1		
	22		
	333		
	44444		
	555555		
111			
111	Write a C program to Print Pascal triangle.		



	Write a C program to print following pattern up to N rows			
112	5			
	54			
	543			
	5432			
	54321			
	Write a C program to print following pattern up to N rows			
113	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			
407	matrices.			
127	Write a C program to perform subtraction between two			
420	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.			
131 132	Write a C program to concatenate two strings. Write a C program to compare two strings.	1		
133	Write a C program to compare two strings. Write a C program to convert lowercase string to uppercase.			
134	Write a C program to convert uppercase string to uppercase. Write a C program to convert uppercase string to lowercase.			
135	Write a C program to find total number of alphabet, digits or			
133	special character in a string.			
136	Write a C program to count total number of vowels and			
200	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			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	



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



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1	Write a C program to Print "C Programming".



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2	Write a C program to Print Address on screen.



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3	Write a C program to Input two numbers and prints its square and cube.
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4	Write a C program to Input two numbers and prints its Addition, Subtraction, Multiplication, and Division.



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



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



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7	Write a C program to count the simple interest.



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8	Write a C program to Calculate the area of circle and triangle.



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9	Write a C program to Input a Rupees and prints its value converted into Dollar.



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10	Write a C program to enter temperature in Celsius and convert it into Fahrenheit.
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11	Write a C program to enter length in centimeter and convert it into meter and kilometer.
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12	Write a C program to convert days into years, weeks.
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13	Write a C program to Input a Number of Chairs and its Total Cost and Prints the Cost of Each chair.



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14	Write a C program to Enter value and check it is less, equal or greater than zero.



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15	Write a C program to find maximum from two numbers.
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16	Write a C program to Input 3 number and print the maximum among them.



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17	Write a C program to check whether a year is leap year or not.



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



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19	Write a C program to input month number and print number of days in that month.



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



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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 >= 80% : Grade A Percentage >= 80% : Grade B Percentage >= 70% : Grade C Percentage >= 60% : Grade D Percentage >= 40% : Grade E Percentage <= 40% : Grade F



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



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



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



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27	Write a C program to input month number and print number of days in that month using switch Case.



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28	Write a C program to print 1 ton using while loop.



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29	Write a C program to Print even numbers from 1to n using while loop.



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30	Write a C program to Print N to 1 using while loop.



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34	Write a C program to Accept one number from user and display its factorial using while loop.



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37	Write a C program to Accept two numbers and find HCF of two numbers using while loop.



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38	Write a C program to Accept two numbers and find LCM of two numbers using while loop.



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39	Write a C program to Print 0 1 1 2 3 5 8 13 21 34 55 (Fibonacci series) using while loop.
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40	Write a C program to Display sum of 1! + 2! + 3! + 4! + 5! Up to n terms using while loop.



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41	Write a C program to find first and last digit of given number using while loop.
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42	Write a C program to print reverse of the number using while loop.
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45	Write a C program to print multiplication table of any number using while loop.



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46	Write a C program to find even numbers between 1 to n using while loop.



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47	Write a C program to find odd numbers between 1 to n using while loop.



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49	Write a C program to enter a number and print it into words using while loop.
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50	Write a C program to print 1 ton using do while loop.



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63	Write a C program to find first and last digit of given number using do while loop.



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64	Write a C program to print reverse of the number using do while loop.



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65	Write a C program to print product of digits of given number using do while loop.



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66	Write a C program to print product of first and last digit of number using do while loop.



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67	Write a C program to print multiplication table of any number using do while loop.



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68	Write a C program to find even numbers between 1 to n using do while loop.



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69	Write a C program to find odd numbers between 1 to n using do while loop.



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70	Write a C program to find sum of even numbers between 1 to n using do while loop.



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71	Write a C program to enter a number and print it into words using do while loop.



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72	Write a C program to print 1 ton using for loop.



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73	Write a C program to Print even numbers from 1to n using for loop.



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74	Write a C program to Print N to 1 using for loop.



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75	Write a C program to Print 1,2,4,8,16,32,64 using for loop.



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76	Write a C program to Print the total of 1-2+3-4+5-6+7-8+9-10.



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77	Write a C program to Accept one no from user and display sum of its digits using for loop.



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78	Write a C program to Accept one number from user and display its factorial using for loop.



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79	Write a C program to Accept one number from user and find if it is prime or not using for loop.
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1



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80	Write a C program to Accept one number from user and find if it is Armstrong or not using for
	loop.



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81	Write a C program to Accept two numbers and find HCF of two numbers using for loop.



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82	Write a C program to Accept two numbers and find LCM of two numbers using for loop.



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83	Write a C program to Print 0 1 1 2 3 5 8 13 21 34 55 (Fibonacci series) using for loop.
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84	Write a C program to Display sum of 1! + 2! + 3! + 4! + 5! Up to n terms using for loop.



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Write a C program to find first and last digit of given no	umber using for loop.



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Write a C program to print reverse of the number using for loop.	\Box



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87	Write a C program to print product of digits of given number using for loop.



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88	Write a C program to print product of first and last digit of number using for loop.



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89	Write a C program to print multiplication table of any number using for loop.



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90	Write a C program to find even numbers between 1 to n using for loop.



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Page | 95

91	Write a C program to find odd numbers between 1 to n using for loop.



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92	Write a C program to find sum of even numbers between 1 to n using for loop.



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



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94	Write a C program to Print pattern like follow. *****



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95	Write a C program to Print pattern like follow.
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96	Write a C program to Print pattern like follow. *****

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97	Write a C program to Print pattern like follow. *
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98	Write a C program to Print pattern like follow. *****

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99	Write a C program to Print pattern like follow.
	11111
	11111
	11111
	11111
	11111



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



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

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Write a C program to Print pattern like follow
Write a C program to Print pattern like follow. 11111
22222
33333
33333 44444
44444
55555



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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



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104	Write a C program to Print pattern like follow
104	Write a C program to Print pattern like follow. 11111 2222
	2222
	222
	333
	44
	5



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



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5 543 5432 54321	06	Write a C program to Print pattern like follow.
5432		5
5432		54
54321		5432
		54321



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107	Write a C program to Print pattern like follow. 12345
	12345
	1234
	123
	12
	1
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Write a C program to Print pattern like follow. 54321	
100	54321
	4321
	321
	21
	21
	1



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400	Well- Communication of the Com
109	Write a C program to Print pattern like follow.
	2 4 6
	4 6 8 10 12
	8 10 12 14 16 18 20
	22 24 26 28 30
	22 24 20 28 30

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110	Write a C program to Print pattern like follow.
110	
	22
	333
	44444 555555

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111	Write a C program to Print Pascal triangle.



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446	Write a C program to print following pattern up to N rows.
112	5
	54
	543
	5432 54321
	J4J21

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112	Write a C program to print following pattern up to N rows.
113	1
	10
	101
	1010
	10101



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



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



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



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



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



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



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122	Write a C program to find reverse of an array.



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



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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.



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127	Write a C program to perform subtraction between two matrices.



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128	Write a C program to find transpose of matrix.



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129	Write a C program to find length of a string.
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130	Write a C program to copy one string to another string.



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131	Write a C program to concatenate two strings.



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132	Write a C program to compare two strings.



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133	Write a C program to convert lowercase string to uppercase.



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134	Write a C program to convert uppercase string to lowercase.



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135	Write a C program to find total number of alphabet, digits or special character in a string.
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136	Write a C program to count total number of vowels and consonant in a string.



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



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138	Write a C program to print reverse of a string.
	1



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



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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.
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143	Write a C program to swap two numbers using pointers.



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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.



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



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149	Write a C program to concatenate two strings using pointers.



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150	Write a C program to compare two strings using pointers.
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151	Write a C program to find reverse of a string using pointers.



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



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



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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.



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



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



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



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



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



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



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165	Write a C program that shows concept of pointer.
	<u></u>



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



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



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



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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).



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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.



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



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



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



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

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



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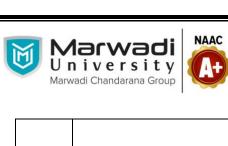
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