Aim & White a ( program to calculate the factorial of 'n' numbers using the concept of Recursion.

Objective: To study concept of recursion

6

Date :-Aim: Write a C Program to calculate the factorial of 'n' numbers using the concept of Remorsion Objective: To study concept of Recurrision Theory: Recursion is a programming and mathematical concept where a function call itself either directly to solve a smaller Instance of Problem It is a powerful & elegant technique that is widely used in various programming Languages maram code: #include < stdio.h> int fact (int n) if (n==0) return to some else return (n\* fact (n-1));

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yoid main ()
}
int num, f;
printf (" Enter any Number : In"); Scanf (": 1. d" & num);
scarre ra anum 1;
f = fact (num);
printf ("In The Factorial of Ild is Ild"
num of);
Algorithmistep 1: Start
step 2: Read number num
Step 3: Call facto mal (int n)
Step 4: Print & (factorial f)
Step 5: Stop
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fact (int n)
Step 1: If n==1 then return 1
Step 2: Else
f=n*factorial(n-1)
Step 3: Return f
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in our hidy 1. 1111 . 1.9 Conclusion: Hence according to given theory, the code & it's corresponding output one valid. : (mun) 1001 = 1 I to En hit to surround out of") Harry. il for min drope: Lyote indiriple awa 2 donner bistica to (a soi) tracint Up) : E quis (4 Irington 1) # Hiring 21 9013 yold it pill 11 311 127 I groft and 1= 1 11:1 pts 301 : 5 pte. A mulliture

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Orderet = lenter any number : 6
Output: enter any number: 6  The factorial of 6 is 720.
THE TULL OF US 120
Conclusion: Hence according to given Theory, the code.  & it's corresponding output are valid.
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