Date: Practical No. 396 Aim: Weite and execute a program based on recursion. Theory: Recursion: Recursion is the process of repeating items in a self-Similar way. In programming languages, if we a programs allow you to call a Function within a Function, then it is calle a recursion call Syntax: void (secursion); void necursion (); recursion(); int main() { secursion (); Code: 1) To find Factorial of an integer number. - #include < Stdio.h> 3 () nipm Ini long int fact (int n); int main () { int n; printf ("Enter a number:"); Scanf (" 1.d", &n); printf ("Factorial of 1.d is 1.d", n, fact (n)); Shree Radhe

Aim: Weste and execute a program stock on securion:

D:\coding\C\practicals\practicalNine\9.1.exe

- Nos. a. M. Krok Enter a number: 5 Factorial of 5 is 120

D:\coding\C\practicals\practicalNine\9.2.exe enter two numbers: 5

Sum of two numbers are: 11

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long int Fact (int n) {
              while (A>In>=1) {
                return n* Fact (n-1);
               return 1;
       2) To find the sum of two numbers.
          #include (stdio.h>
           int sum (int x, inty);
           int main () {
            int a,b;
             printf(" Enter the two numbers: ");
              scanf (" 1.d 1.d ", &a, &b);
              printf ("The sum of the two numbers is: 1 d", a sum (x=a, b)
             I setura 0;
               int sum (int x , int y ) &
                 if (y == 6) {
                  return X;
                  else
                seturn (1+ sum(20,y-1));
Shree Radhe
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4	Conclusion:
	Hence, I got knowledge about recursion and wrote and executed
	a program based on recursion.
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Shree Radhe	
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