DATE: Recursion i fibonacci Series #include < Stdio.h> unt filhonacci (int n) if (n <=1) return n; return fibonacci (n-1) + fibonacci (n-2); Void main () printf ("Enter Number of Jerms in Jibonaci Series: "); sconf ("1.d", &n); print ! " The Fibonacci Serves: "); for (i = 0; icn; i+1) printf("1-d", fibonacci (i)) Output Enter Number of Jermy in Abonacci Series: 10 Abonacci Series: 9 1 1 2 3 5 8 13

PAGE NO : Factorial sinduce estations unt pactorial (int n) cif (n <=1) return 1; neturn nx factorial (4-1); int num; printfl" Enter Number to Calculate Factorial: "); Scanfl " 7.d", bnum); if (num 20) printf(" factorial Not Possible."); else printl("factorial of 1.d is 1.d In ", num, factorial (num)); Output Enter Number to Calculater factorial: 6 Factorial of 6 is \$20

iii Jower of Hansi # include (stdio.h) void 704 (unt 1, char 5, chart, chard) if (n = = 1) printf (" Move Disk Yed from 1.c to 1.c In" TOH(n-1, S, d, t); printf("Nove Disk to from 1. c to 1. c \n,", n, s,d); TOH(n-1, such t, sid); Output More Disk 1 from 5 to D More Dusk 2 from 5 to 7 Hove Disk 1 from D to T Move alisk 3 from 5 to 1 Hove Disk 1 from T/tos Hove Disk 2 from / 7 to D Move Disk! from 5 to 0