PRACTICAL – 2

PROGRAM -1

AIM- Write A Program To Implement Factorial Of A Number

CODE-

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| #include <stdio.h>  int factorial(int n)  {  if (n == 0) {  return 1;  } else {  return n \* factorial(n - 1);  }  }  int main() {  printf("\n HARSH D \n");  int num, fact;  printf("Enter a Number to find factorial: ");  scanf("%d", &num);  if(num < 0) {  printf("Factorial of negative numbers is not defined.\n");  } else {  fact = factorial(num);  printf("Factorial of %d = %d\n", num, fact);  }  return 0;  } |

OUTPUT-

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PROGRAM -2

AIM- Write A Program To Implement Fibonacci Series Of A Number

CODE-

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| #include <stdio.h>  int fibonacci(int n) {  if (n <= 1) {  return n;  } else {  return fibonacci(n - 1) + fibonacci(n - 2);  }  }  int main() {  printf("\n HARSH D \n");  int num, fib;  printf("Enter a number to find its Fibonacci: ");  scanf("%d", &num);  fib = fibonacci(num);  printf("Fibonacci of %d = %d\n", num, fib);  return 0;  } |

OUTPUT-

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