```
Program to calculate the factorial of the given no.

input:-

#include < statio.hs

int indomain()

int i, fact=1,n;

printf ("Enter a number to find factorial:");

Scanf ("/d", &n);

for (i=1, ix=n; i++)

fact = fact";
```

printf ("factorial of "/d is: "/d", n, fact);

Output :-

Enter a number to find factorial: 6. factorial of Gis: +20.

```
Write a c program to find length of the string
and calculate the no: of vowels in it!
 input:-
  #include < stdio.h>
  int main ()
    Chan str [100];
     int i, vowels = 0;
     printf ("Enter the string");
     Scanf ("% [^\n]s", &str);
for (i=0; str[i]; i++)
       if (str [i] = = 'a' | str [i] = = e' | str [i] = = in
          Str [i] == 'O'11 Str [i] == 'U' 11 Str [i] == 'A'11
          Str[i] == "E' || str[i] == I' || str[i]== 'O'||
           Str[i] == 'U')
                      - Est later was
             yowes++;
       print f ("Total numbors of vowels: = 1/d
                                 (n", vowels);
       retwin 0;
```

```
Output:-
 Enten the string: I am Kaivalya
   Total number of vowels = 6.
Write a C program for program of student
Database using structure?
 intput:-
  # include ¿ studio.h>
  Struct student
    chan first name [so];
                                  · (-) (3023 2 )
    int roll;
    float marks;
       S C2];
        nt main;
        int;
       printf ("Enter information of students: In");
       for Li=0; i<2; i++)
```

SCIJ. roll = i+1;

printf(" an In for roll numbers % d, In", S[i].vol;

prints ("Enter the first name: ");

Scarf ("1.f", &SCIJ. Marks);

3)

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printf ("Enton marks:");
  Scanf (" Y.f", &S[:]. marks);
 printf ("Displaying information: (n in");
 for (i=0 ; i<2; i++)
     printf ("In Roll number: "d (n", 1+);
     printf ("first name:");
     puts (SC:3.first name);
     printf (" Mooks: ". . if", S[i]. mooks);
     printf ("(n");
   return 0;
Output:-
 Roll number: 1
 enter first name: anju
  enter mores 97
 Roll number: 2
 enter stagtename: kaivo
 enter marks 93.
 Displaying information:
```

```
program to search an element in the given
array using liner search?
 input:-
  #include <stdio.h>
                        (725 3/20 7) 7 " ·
  #include < conio.h>
   int maine)
      Scanf int acro], i=0, ele=0, flag=1;
      printf ("Enter array elements: ");
      for (i=0; i<10; i++)
          scanf("%d", &a [i]);
       4
       printf ("Entor the element to search:");
       scanf ("%d", &else);
       for (i=0; 1<10; i++)
           if (aci] = = ele)
             flag = 0;
```

if (flag == 0) printf ("element found"); ase printf ("element not found"); return o; of which are the way of the Commen Tool Output:-Enter the element: Hyrodgen enter the element to search: element -found. · (17) 03 " L. X and the telephone and the product of the sound PART 101 41 10 1 (3233136331

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program to take input in a matrix (20 Matrix array)
and print only the diagonal elements using
multidimentionals array!
 input:-
 # include < studio.h>
  int main ()
int matrix [3][3];
    int i, j, rows, cols;
    printf ("enter the number of rows and colums
                          of the matrix: ");
    scanf ("/d /-d", drows, dcols);
     printf (" Enter the elements of the matrix: \n");
    for (j=0; j< 6010; j++)
     { -for Cj=0; j < cols; j++)
         if Li==j)
           print & ("1.d", matrix Ei][j]);
       4
   retwin o;
```

out put:

Enter the number of rows and columns of the matrix: 3

(0,0):1

. Colore adl vo

enter the elements of the circle of matrix:

The diagonal elements of the matrix are:

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