```
#include<stdio.h>
     /*rite a program to read Title, Author and Price of 5 books using array of structures.
 2
     Display the records in ascending order of Price.*/
 3
 4
     struct book{
             char title[100],author[100];
 6
             int price;
         };
 8
     void main(){
 9
         int i,j;
10
         struct book b[3];
11
             for(i=0;i<3;i++){</pre>
12
              printf("Enter Title of the book\n");
              scanf("%s",&b[i].title);
13
14
              printf("Enter the name of the author of the book\n");
              scanf("%s",&b[i].author);
15
16
              printf("Enter price of the book\n");
17
              scanf("%d",&b[i].price);
18
         for(j=0;j<3;j++){
19
20
              printf("\n%d Title of the book\n",j+1);
21
              printf("\t%s",b[j].title);
22
              printf("\nname of the author of the book\n");
              printf("\t%s",b[j].author);
23
24
              printf("\nprice of the book\n");
25
              printf("\t%d",b[j].price);
26
27
         getch();
```

```
ъ
       J: > Notes > coding > cp Qbank code > C Q2.c > ...
         1 //Implement a program to perform addition of two matrices.
0
               #include<stdio.h>
               void main(){
થ
                   int j[3][3],k[3][3],a,b,c,d;
                   printf("enter array elements");
                   for(a=0;a<3;a++){</pre>
÷
                       printf("\n")
                        for(b=0;b<3;b++){
                             scanf("%d",&j[a][b]);
         10
4
               printf("enter 2nd array elements");
                   for(c=0;c<3;c++){
                      printf("\n");
         14
                        for(d=0:d<3:d++){
                             scanf("%d",&k[c][d]);
         18
                    for(a=0;a<3;a++){</pre>
                       printf("\n")
                        for(b=0;b<3;b++){
    printf("%d ",j[a][b]);</pre>
                    printf("\n");
                    for(c=0;c<3;c++){
                      printf("\n");
                        for(d=0;d<3;d++){
    printf("%d ",k[c][d]);</pre>
         28
         30
                   printf("\n Sum of the arrays");
                    for(c=0;c<3;c++){
                       printf("\n");
                        for(d=0;d<3;d++){
    printf("%d ",j[c][d]+k[c][d]);</pre>
                    getch();
\otimes 0 \triangle 0
```

```
//Implement a program to perform addition of two matrices.
 1
 2
     #include<stdio.h>
 3
     void main(){
         int j[3][3],a,b,c,d;
 4
 5
         printf("enter array elements");
         for(a=0;a<3;a++){
 6
              printf("\n");
 7
              for(b=0;b<3;b++){}
 8
                  scanf("%d",&j[a][b]);
 9
10
11
12
         printf("\n transpose of matrices");
         for(c=0;c<3;c++){
13
             printf("\n");
14
15
              for(d=0;d<3;d++){}
                  printf("%d ",j[d][c]);
16
17
18
19
         getch();
20
```

```
#include<stdio.h>
void main(){
    int n1=0, n2=1,n,temp;
    printf("Enter number of elements\n");
    scanf("%d ",&n);
    printf("%d %d",n1,n2);
    for(int i=0;i<n-2;i++){
        temp=n1+n2;
        n1=n2;
        n2=temp;
        printf("%d ",temp);
    }
    getch();
}</pre>
```

```
//Write a program using recursion to find factorial of a number.
1
     #include<stdio.h>
2
     int fact(int n){
3
4
         if(n==0)
5
             return 1;
         else{
6
7
             return n*fact(n-1);
8
9
     void main(){
10
11
         int a;
         printf("Enter no.");
12
         scanf("%d",&a);
13
         printf("%d",fact(a));
14
15
         getch();
16
```

```
//Implement a program to perform multiplication` of two matrices.
#include<stdio.h>
void main(){
    int j[3][3],k[3][3],product[3][3],a,b,c,d,e;
    printf("enter array elements");
    for(a=0;a<3;a++){
        printf("\n");
        for(b=0;b<3;b++){}
            scanf("%d",&j[a][b]);
printf("enter 2nd array elements");
    for(c=0;c<3;c++){
        printf("\n");
        for(d=0;d<3;d++){}
            scanf("%d",&k[c][d]);
    for(a=0;a<3;a++){
        printf("\n");
        for(b=0;b<3;b++){}
            printf("%d ",j[a][b]);
    printf("\n");
    for(c=0;c<3;c++){
        printf("\n");
        for(d=0;d<3;d++){}
            printf("%d ",k[c][d]);
    printf("\n product of the matrices");
    for(c=0;c<3;c++){
        printf("\n");
        for(d=0;d<3;d++){}
            product[c][d]=0;
            for(e=0;e<3;e++){
                product[c][d]+=j[c][e]*k[e][d];
     for(c=0;c<3;c++){
           for(d=0;d<3;d++){
                  intf("%d ",product[c][d]);
    getch();
```

```
#include<stdio.h>
int power(int n,int x){
    if(n==0)
        return 1;
    else{
        return x*power(n-1,x);
    }
}

void main(){
    int x,p;
    printf("ENTER the no.");
    scanf("%d",&x);
    printf("Power of the number");
    scanf("%d",&p);
    printf("required answer is %d",power(p,x));
    getch();
}
```

```
//Write a program to find largest element of an 1D array.
#include<stdio.h>
void main(){
    int a[10],temp=0;
    printf("Enter array elements");

    for(int i=0;i<10;i++){
        scanf("%d",&a[i]);
    }
    for(int i=0;i<10;i++)
    {
        if(a[i]>temp)
        {
            temp=a[i];
        }
        printf("largest number in the array is %d",temp);
        getch();
}
```

```
//Write a Program to calculate and display sum of all the elements of the matrix.
#include<stdio.h>
void main(){
    int a[3][3], sum=0;
    printf("enter array elements");
    for(int i=0;i<3;i++){
        printf("\n");
        for(int j=0;j<3;j++){
            | scanf("%d",&a[i][j]);
        }
    }
    for(int i=0;i<3;i++){
        printf("\n");
        for(int j=0;j<3;j++){
            | sum+=a[i][j];
        }
    }
    printf("sum of the elements is %d",sum);
    getch();
}</pre>
```

```
//Write a program to check if the entered number is prime number or not.
#include<stdio.h>
void main(){
    int num,flag=0;
    printf("Enter the number you want to check");
    scanf("%d",&num);
    for(int i=2;i<num;i++)</pre>
        if(num%i==0){
            flag=0;
            break;
        else
            flag=1;
    if(flag==1)
        printf("PRIME number");
    else
        printf("non prime");
    getch();
```

```
//Write a program in C to find out the power of x raised to n (xn), using non-recursive fucntion
#include<stdio.h>
#include<math.h>
int power(){
    int x=5,n=3,p=1;
    for(int i=0;i<n;i++){
        p=p*x;
    }
    return p;
}

void main(){
    printf("%d",power());
    getch();
}</pre>
```