

```
/*1. Find the minimum and maximum elements in array*/
```

```
#include<stdio.h>
```

```
int array(int a[], int n);
```

```
int main()
```

```
{
```

```
    int a[5],n;
```

```
    printf("Enter the size of an array: ");
```

```
    scanf("%d",&n);
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&a[i]);
```

```
    }
```

```
    array(a, n);
```

```
}
```

```
int array(int a[], int n)
```

```
{
```

```
    int max=a[0], min=a[0];
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        printf("%d\n", a[i]);
```

```
        if(a[i]>max)
```

```
            max=a[i];
```

```
        if(a[i]<min)
```

```

        min=a[i];

    }

    printf("Maximum of array: %d\n", max);
    printf("Minimum of array: %d\n",min);
    return 0;
}

```

/*2. Search the given number in array. */

```
#include<stdio.h>
```

```
int array(int n, int arr[]);
```

```
int main()
```

```
{
```

```
    int n, arr[100];
```

```
    printf("Enter the size of an array");
```

```
    scanf("%d",&n);
```

```
    printf("Enter the elements: ");
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&arr[i]);
```

```
    }
```

```
    array(n, arr);
```

```
}
```

```
int array(int n, int arr[])
```

```
{
```

```

int found=0,num;

printf("Enter the element to search");
scanf("%d",&num);

for(int i=0;i<n;i++)
{
    if(arr[i]==num)
    {
        printf("Element found in an array: \n");
        found=1;
        break;
    }
}
if(!found)
{
    printf("Element not found in an array");
}
return 0;
}

/*3. Find sum of all numbers. */
#include<stdio.h>

int array(int a[], int n);

int main()
{
    int a[100], n;

```

```
printf("Enter the size of an array");
```

```
scanf("%d",&n);
```

```
printf("Enter the elements: ");
```

```
for(int i=0;i<n;i++)
```

```
{
```

```
    scanf("%d",&a[i]);
```

```
}
```

```
array(a,n);
```

```
}
```

```
/*4. Find odd and even among the numbers. */
```

```
#include<stdio.h>
```

```
int array(int a[], int n);
```

```
int main()
```

```
{
```

```
    int a[100], n;
```

```
    printf("Enter the size of an array: ");
```

```
    scanf("%d",&n);
```

```
    printf("Enter the element");
```

```
    for(int i=0;i<n;i++)
```

```
{
```

```
        scanf("%d",&a[i]);
```

```
}
```

```

        array(a,n);
    }
int array(int a[], int n)
{
    printf("\n Even Number");
    for(int i=0;i<n;i++)
    {
        if(a[i]%2==0)
        {
            printf(" %d\n ",a[i]);
        }
    }

    printf("\n");

    printf("\n Odd Numbers");
    for(int i=0;i<n;i++)
    {
        if(a[i]%2!=0)
        {
            printf(" %d\n ",a[i]);
        }
    }

    printf("\n");
    return 0;
}

```

```
/*5. Print alternate elements in array. */
```

```
#include<stdio.h>
```

```
int array(int a[], int n);
```

```
int main()
```

```
{
```

```
    int a[100],n;
```

```
    printf("Enter the size of an array");
```

```
    scanf("%d",&n);
```

```
    printf("Enter the elements: ");
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&a[i]);
```

```
    }
```

```
    array(a,n);
```

```
}
```

```
int array(int a[], int n)
```

```
{
```

```
    for(int i=0;i<n;i=i+2)
```

```
    {
```

```
        printf("%d\n",a[i]);
```

```
    }
```

```
    return 0;
```

```
}
```

```
/*6. Accept array and print only prime numbers of array. */
```

```
#include<stdio.h>
```

```
int array(int n, int arr[]);
```

```
int main()
```

```
{
```

```
    int n,arr[100];
```

```
    printf("Enter the size of an array");
```

```
    scanf("%d",&n);
```

```
    printf("Enter the elements");
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        scanf("%d",&arr[i]);
```

```
    }
```

```
    array(n,arr);
```

```
}
```

```
int array(int n,int arr[])
```

```
{
```

```
    printf("Print the number of arrays are: \n");
```

```
    for(int i=0;i<n;i++)
```

```
    {
```

```
        int num = arr[i];
```

```
    int isPrime = 1;
```

```
    if(num <= 1)
```

```
        isPrime = 0;
```

```

    for(int j = 2; j <= num/2; j++)
    {
        if(num % j == 0)
        {
            isPrime = 0;
            break;
        }
    }

    if(isPrime)
    {
        printf("%d ", num);
    }
    }

    return 0;
}

/*

```

7. Take two array and add sum in third array

Example arr[5]= {1,2, 3, 4,5}

brr[5]={10,20,30, 40, 50}

crr[5]={11,22,33,44,55}

*/

```
#include<stdio.h>
```

```
int array(int a[], int b[], int n);
```

```
int main()
```



```

{
    int a[100], b[100], n;

    printf("Enter the size of an array: ");

    scanf("%d",&n);

    printf("Enter the 1st elements: ");

    for(int i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }

    printf("Enter the 2nd elements: ");

    for(int i=0;i<n;i++)
    {
        scanf("%d",&b[i]);
    }

    array(a,b,n);
}

int array(int a[], int b[], int n)
{
    int sum[100];

```

```

        for(int i=0;i<n;i++)
        {
            sum[i]=a[i]+b[i];
        }

        printf("Sum of two array is: \n");

        for(int i=0;i<n;i++)
        {
            printf("%d\n",sum[i]);
        }

        printf("\n");

        return 0;
    }
/*8. Merge two arrays*/

#include<stdio.h>

int array(int a[], int b[], int n1, int n2);

int main()
{
    int a[100], b[100], n1,n2;

    printf("Enter the size of an array: ");
    scanf("%d",&n1);

```

```
printf("Enter 1st elements of an array");
```

```
for(int i=0;i<n1;i++)
```

```
{
```

```
    scanf("%d",&a[i]);
```

```
}
```

```
printf("Enter the size of an array: ");
```

```
scanf("%d",&n2);
```

```
printf("Enter 2nd elements of an array");
```

```
for(int i=0;i<n2;i++)
```

```
{
```

```
    scanf("%d",&b[i]);
```

```
}
```

```
array(a,b,n1,n2);
```

```
}
```

```
int array(int a[], int b[], int n1, int n2)
```

```
{
```

```
    int merge[100];
```

```
    for(int i=0;i<n1;i++)
```

```
    {
```

```
        merge[i]=a[i];
```

```
    }
```

```
for(int i=0;i<n2;i++)
{
    merge[n1+i]=b[i];
}

printf("Merge Array is: \n");

for(int i=0;i<n1+n2;i++)
{
    printf("%d ",merge[i]);
}
return 0;
}
```