

//1. Find minimum and maximum number in array.

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

```
int main()
{
    int a[5], max=a[0], min=a[0];

    for(int i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    for(int i=0;i<5;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 main()
{
    int n, arr[100], num, found=0;

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

    printf("Enter the elememts in an array:");
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }

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

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

```

        if(arr[i]==num)
        {
            printf("Number will be found");
            found=1;
            break;
        }
    }
    if(!found)
    {
        printf("Element not found at position");
    }
    return 0;
}

```

//3. Find sum of all numbers.

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

```

int main()
{
    int arr1[100], arr2[100], n, sum[100];

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

    printf("Enter 1st array");

    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr1[i]);
    }

    printf("Enter 2nd array");

    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr2[i]);
    }

    for(int i=0;i<n;i++)
    {
        sum[i]=arr1[i]+arr2[i];
    }

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

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

```

```

        {
            printf("%d\n",sum[i]);
        }
        printf("\n");

        return 0;
    }

```

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

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

```

int main()
{
    int n;
    printf("Enter the size of array: ");
    scanf("%d",&n);

    int a[n];

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

    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 main()
{
    int n;

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

    int arr[n];

    for(int i=0;i<n;i++)
    {
        scanf("%d", &arr[i]);
    }
    printf("Print Alternate Number: ");

    for(int i=0;i<n;i=i+2)
    {
        printf("%d\n",arr[i]);
    }
    return 0;
}
```

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

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

```
int main()
{
    int n;

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

    int arr[n];

    printf("Enter %d numbers:\n", n);
    for(int i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
    }
}
```

```

printf("Prime numbers in the array 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 main()
{
    int n, arr[10], sum=0;

    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]);
    }
    printf("Sum of array");
}

```

```

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

```

//8. Merge two arrays

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

```

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

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

    printf("Enter the %d element",n1);

    int arr[n1];

    for(int i=0;i<n1;i++)
    {
        scanf("%d",&arr[i]);
    }

    printf("Enter the size of an array: ");
    scanf("%d",&n2);

    int arr2[n2];

    printf("Enter the %d element",n2);

    for (int i = 0; i < n2; i++)
    {
        scanf("%d", &arr2[i]);
    }

    for (int i = 0; i < n1; i++)
    {
        merge[i] = arr[i];
    }
    for (int i = 0; i < n2; i++)
    {
        merge[n1 + i] = arr2[i];
    }
}

```

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