

```

#include<stdio.h>

int main()
{
    int a[5],max=0,max2=0,i;
    for(int i=0;i<5;i++)
        scanf("%d",&a[i]);
    for(int i=0;i<5;i++)
    {
        if(a[i]>max)
        {
            max2=max;
            max=a[i];
        }
        if(a[i]!=max&& a[i]>max2)
            max2=a[i];
    }
    printf("max2=%d",max2);
    return 0;
}

```

```

#include<stdio.h>

int main(){
    int a[10],i,s=0;

    for(i=0;i<10;i++){
        printf("enter the no of elements");
        scanf("%d",&a[i]);
    }
    for(i=0;i<10;i++)
    {
        s=s+a[i];
    }
}

```

```
}  
printf("sum of elements of array=%d",s);  
return 0;  
}
```

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

```
int main(){
```

```
int a[5],i,e=0,o=0;
```

```
for(i=0;i<5;i++){
```

```
printf("enter the no of elements");
```

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

```
}
```

```
for(i=0;i<5;i++)
```

```
{
```

```
if(a[i]%2==0)
```

```
{
```

```
e++;
```

```
}
```

```
else
```

```
{
```

```
o++;
```

```
}
```

```
}
```

```
printf("even elements are%d\n odd elements are%d",e,o);
```

```
return 0;
```

```
}
```

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

```
void main()
```

```

{
    int n;
    scanf("%d",&n);
    int a[n],i,ele,f=0,index,m;
    printf("enter the size");
    scanf("%d",&m);
    for(i=0;i<m;i++)
        scanf("%d",&a[i]);
    printf("enter the element");
    scanf("%d",&ele);
    for(i=0;i<m;i++)
    {
        if (a[i]==ele)
        {
            f=1;
            index=i;
            break;
        }
    }
    if(f==1){
        printf("element is found at index position=%d",index++);}
    else{
        printf("not found");}
}

```

```

#include<stdio.h>

```

```

int main()
{
    int a[5],i;
    for(i=0;i<5;i++)
    {

```

```

        scanf("%d",&a[i]);
    }
    printf("array elements entered are");
    for(i=0;i<5;i++)
    {
        printf("%d",a[i]);
    }
    return 0;
}

```

```

#include<stdio.h>
int main()
{
    int a[5],i;
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("array elements entered are");
    for(i=0;i<5;i++)
    {
        if(a[i]<0)
        printf("%d",a[i]);
    }
    return 0;
}

```

```

#include<stdio.h>
int main()
{
    int a[10],i,j,pos,val;

```

```

for(i=0;i<9;i++)
{
    printf("enter number");
    scanf("%d",&a[i]);
}
printf("enter index to insert");
scanf("%d",&pos);
printf("enter value to insert");
scanf("%d",&val);
for(i=8;i>=pos;i--)
a[i+1]=a[i];
a[pos]=val;
printf("array after insertion");
for(i=0;i<10;i++)
printf("\t%d",a[i]);
return 0;
}

```

```

#include<stdio.h>

int main()
{
    int N;
    scanf("%d",&N);
    int a[N],b[N],i;
    printf("enter the numbers",N);
    for(i=0;i<N;i++)
    scanf("%d",&a[i]);
    printf("copying elements of array a to b");
    for(i=0;i<N;i++)
    b[i]=a[i];
    printf("\nnoriginal(a[%d])-->copy(b[%d])\n",N,N);
}

```

```

    for(i=0;i<N;i++)
    printf("%4d\t-->%6d\n",a[i],b[i]);
    return 0;
}

```

```

#include<stdio.h>

int main()
{
    int a[6],freq=0,key,i;
    for(i=0;i<6;i++)
    {
        printf("enter number");
        scanf("%d",&a[i]);
    }
    printf("enter a number to find the frequency");
    scanf("%d",&key);
    for(i=0;i<6;i++)
    if(a[i]==key)
        freq++;
    printf("\nfrequency of %d is %d",key,freq);
    return 0;
}

```

```

#include<stdio.h>

int main()
{
    int n,i,j,count=0;
    printf("enter the number of elements in the array");
    scanf("%d",&n);
    int a[n];
    printf("enter the elemwnts");

```

```

for(i=0;i<n;i++)
{
    scanf("%d",&a[i]);
}
for(i=0;i<n;i++)
{
    for(j=i+1;j<n;j++)
    {
        if(a[i]==a[j]){
            count++;
            break;
        }
    }
}
printf("total number of duplicate elements in the array %d\n",count);
return 0;
}

```

```

#include<stdio.h>

int main()
{
    int a[6],n,i,j,k;

    printf("enter the number of element");

    scanf("%d",&n);

    printf("enter the %d elements");

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

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

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

    for(j=i+1;j<n;j++)

    if(a[i]==a[j])

    {

```

```
    for(k=j+1;k<n;k++)
        a[k-1]=a[k];
    j--;
    n--;
}
printf("\n after delete duplicate elements");
for (i=0;i<n;i++)
    printf("\n%d",a[i]);
return 0;
}
```