- **Search for an integer put by the user in an array. If found print the position**

```
#include<stdio.h>
int main()
{
   int i,n,ele;
   int a[10];
   printf("enter the size");
   scanf("%d",&n);
   for(i=0;i<n;i++)
   {
      printf("enter the elements");
      scanf("%d",&a[i]);
   }
   printf("the entered the array is");
   for(i=0;i<=n;i++)
   {
      printf("%d",a[i]);
   }
   printf("enter the element to be searched");
   scanf("%d", &ele);
   for(i=0;i<n;i++)
   {
      if(ele==a[i])
      {
      printf("the element was found in %d position",i+1);
      return 0;
   }
}
  printf("num not found");
  return 0;
```

```
}
```

- **Find the minimum and maximum element in an array**

```
#include <stdio.h>
int main()
{
        int a[10],i,n,max,min;
        printf("enter the array size :");
        scanf("%d",&n);

        for(i=0;i<n;i++)
        {
                printf("enter the elements :");
                scanf("%d",&a[i]);

        }
        max=a[0];
        min=a[0];
         for(i=0;i<n;i++)
         {
                if(a[i]>max)
                {
                max=a[i];
           }
           if(a[i]<min)
           {
                min=a[i];
                }

         }
         printf("maximum is %d",max);
```

```
        printf("minimum is %d",min);
        return 0;

}
```

- **Define a 2 dimensional array. Store values in it and display it.**

```
#include<stdio.h>
int i,j,x,y,a[20][20];
int main()
{
   printf("enter the values");
   scanf("%d%d",&x,&y);
   for(i=0;i<x;i++)
   {
   for(j=0;j<y;j++)
    {
   printf("enter the array elements a[%d][%d]",i,j);
   scanf("%d",&a[i][j]);
    }
   }
   for(i=0;i<x;i++)
    {
   printf("\n");
   for(j=0;j<y;j++)
    {
   printf("%d\t",a[i][j]);
    }
  }
   return 0;
 }
```

- **Add two 2D matrices and display the result. If they are of same size.**

```
#include<stdio.h>
int x,y,i,j,a[10][10],b[10][10],c[10][10];
int main()
{
   printf("enter the values");
   scanf("%d%d",&x,&y);
   for(i=0;i<x;i++)
   {
      for(j=0;j<y;j++)
      {
         printf("enter the array values a[%d][%d]",i,j);
         scanf("%d",&a[i][j]);
      }
   }
   for(i=0;i<x;i++)
   {
      for(j=0;j<y;j++)
      {
         printf("enter the values b[%d][%d]");
         scanf("%d",&b[i][j]);
      }
   }
   for(i=0;i<x;i++)
   {
      for(j=0;j<y;j++)
      {
         c[i][j]=a[i][j]+b[i][j];
      }
   }
    printf("sum of array\n",c[i][j]);
    {
       for(i=0;i<x;i++)
       {
          printf("\n");
          for(j=0;j<y;j++)
          {
             printf("\t%d",c[i][j]);
          }
       }
       return 0;
    }
}
```

- **Display the values in an array which are in the even position.. for example, a[0], a[2] etc…**

```
#include<stdio.h>
int main()
{
   int a[10],i,n;
   printf("enter the size");
   scanf("%d",&n);
   for(i=0;i<n;i++)
   {
      printf("enter the values");
      scanf("%d",&a[i]);
   }
   printf("\nthe array elements are:");
   for(i=0;i<n;i++)
   {
      printf("%d\t",a[i]);
   }
   printf("\neven num position are %d",a[i]);
   for(i=0;i<n;i+=2)
   {
    printf("%d\t",a[i]);
   }
   return 0;
}
```