**WAP to enter roll number of 10 students.**

#include <stdio.h>

void main()

{

Int roll[10] , i ;

printf(“\n enter roll number”);

for(i=0;i<10;i++)

{

scanf(“%d”,&roll[i]);

}

printf(“\n you entered: \n”);

for(i=0;i<10;i++)

{

printf(“ %d\n”,roll[i]);

}

}

**WAP to enter roll number of 10 students.**

#include <stdio.h>

void main()

{

int num[10] , i ,sum=0 ;

printf(“\n enter the numers”);

for(i=0;i<10;i++)

{

scanf(“%d”,&num[i]);

}

for(i=0;i<10;i++)

{

Sum=sum+num[i];

}

printf(“ %d”,sum);

}

**WAP to enter 10 numbers and add the value with a particular number entered by the user.**

#include <stdio.h>

void main()

{

int num[10] , i ,dig;

printf(“\n enter the numers”);

for(i=0;i<10;i++)

{

scanf(“%d”,&num[i]);

}

for(i=0;i<10;i++)

{

num[i]=num[i]+dig;

}

printf(“display the new array”);

for(i=0;i<10;i++)

{

printf(“%d \n”,num[i]);

}

}

**WAP to enter 10 numbers and print the average.**

#include <stdio.h>

void main()

{

int num[10] , i ,sum=0 ;

float avg;

printf(“\n enter the numers”);

for(i=0;i<10;i++)

{

scanf(“%d”,&num[i]);

}

for(i=0;i<10;i++)

{

sum=sum+num[i];

}

avg=sum/10;

printf(“average is=%f”,avg);

}

**Application of array.**

**1)Insert**

**2)Delete**

**3)Update**

**4)Searching**

**5)Sorting**

**WAP to insert an element in an array in given position.**

**0 1 2 3 4 5 6………………………………………….50**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **10** | **20** | **30** | **40** | **50** |  |  |  |  |  |

**Size=50,position=3,new element=70,current range=5 so last index is 4 i.e a[4],after insertion range will 6 and last index will be 5 i.e a[5]**

#include <stdio.h>

void main()

{

Int a[50] , range ,pos,i,new ;

printf(“\n enter the range”);

scanf(“%d”,&range);

printf(“enter the elements”);

for(i=0;i<10;i++)

{

scanf(“%d”,&a[i]);

}

printf(“ enter the position to insert”);

scanf(“%d”,&pos);

printf(“enter the value to insert”);

scanf(“%d”,&new);

for(i=range-1;i<pos-1;i--)

{

a[i+1]=a[i];

}

a[pos-1]=new;

range++;

printf(“ display the new array”);

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

{

printf(“%d”,a[i]);

}

}

**WAP to delete an element in an array when position is given.**

**0 1 2 3 4 5 6………………………………………….50**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **10** | **20** | **30** | **40** | **50** |  |  |  |  |  |

**Size=50,position=3,current range=5 so last index is 4 i.e a[4],after deletion range will 4 and last index will be 3 i.e a[3]**

#include <stdio.h>

void main()

{

Int a[50] , range ,pos,i ;

printf(“\n enter the range”);

scanf(“%d”,&range);

printf(“enter the elements”);

for(i=0;i<10;i++)

{

scanf(“%d”,&a[i]);

}

printf(“ enter the position to delete”);

scanf(“%d”,&pos);

for(i=pos-1;i<range-1;i++)

{

a[i]=a[i+1];

}

range--;

printf(“ display the new array”);

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

{

printf(“%d”,a[i]);

}

}

**WAP to delete a particular element in an array.**

**0 1 2 3 4 5 6………………………………………….50**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **10** | **20** | **30** | **40** | **50** |  |  |  |  |  |

**Size=50,delete element=20,current range=5 so last index is 4 i.e a[4],after deletion range will 4 and last index will be 3 i.e a[3]**

#include <stdio.h>

void main()

{

Int a[50] , range ,deleteEle,i ;

printf(“\n enter the range”);

scanf(“%d”,&range);

printf(“enter the elements”);

for(i=0;i<10;i++)

{

scanf(“%d”,&a[i]);

}

printf(“ enter the element to delete”);

scanf(“%d”,&deleteEle);

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

{

if(a[i]=deleteEle)

{

for(j=i;j<range-1;j++)

{

a[j]=a[j+1];

}

break;

}

}

range--;

printf(“ display the new array”);

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

{

printf(“%d”,a[i]);

}

}

**Or**

#include <stdio.h>

void main()

{

Int a[50] , range ,deleteEle,i ;

printf(“\n enter the range”);

scanf(“%d”,&range);

printf(“enter the elements”);

for(i=0;i<10;i++)

{

scanf(“%d”,&a[i]);

}

printf(“ enter the element to delete”);

scanf(“%d”,&deleteEle);

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

{

if(a[i]=deleteEle)

{

pos=i;

break;

}

}

for(i=pos;i<range;i++)

{

a[i]=a[i+1];

}

range--;

printf(“ display the new array”);

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

{

printf(“%d”,a[i]);

}

}

**Update**

#include <stdio.h>

void main()

{

Int a[50] , range ,new,pos,i ;

printf(“\n enter the range”);

scanf(“%d”,&range);

printf(“enter the elements”);

for(i=0;i<10;i++)

{

scanf(“%d”,&a[i]);

}

printf(“ enter the position”);

scanf(“%d”,&pos);

printf(“enter the update element”);

scanf(“%d”,&new);

a[pos-1]=new;

printf(“ display the new array after updation”);

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

{

printf(“%d”,a[i]);

}

}