**Assignment Day 2**

**Question 1: Write the program for deleting an element from the beginning and from any position**.

**Program for deleting an element from beginning:**

#include <stdio.h>

int main()

{

int a[100],i,n;

printf("Enter number of elements in an array\n");

scanf("%d",&n);

printf("Enter %d elements\n",n);

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

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

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

a[i-1]=a[i];

printf("array elements are:");

for(i=0;i<n-1;i++)

printf("---|%d|---",a[i]);

return 0;

}

**output:**

Enter number of elements in an array

4

Enter 4 elements

20

15

10

8

array elements are:---|15|------|10|------|8|---

**Program for deleting an element from any position:**

#include <stdio.h>

int main()

{

int a[100],pos,i,n;

printf("Enter number of elements in an array\n");

scanf("%d",&n);

printf("Enter %d elements\n",n);

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

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

printf("Enter location where you wish to delete an element\n");

scanf("%d",&pos);

if(pos>=n+1)

printf("Deletion not possible\n");

else

{

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

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

printf("Resultant array is\n");

for(i=0;i<n-1;i++)

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

}

return 0;

}

**output:**

Enter number of elements in an array

5

Enter 5 elements

10

12

15

30

14

Enter location where you wish to delete an element

2

Resultant array is

10

15

30

14

**Question 2: Write the program for printing the array after rotating it k times towards left, where k would be taken as user input.**

**Program:**

#include <stdio.h>

int main()

{

int ar[100],i,n,k;

printf("enter no of elements in an array: ");

scanf("%d",&n);

printf("Enter %d array elements: \n",n);

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

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

printf("Array elements are:\n ");

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

printf("|%d|",ar[i]);

printf("\n Enter the value of k: ");

scanf("%d",&k);

printf("Array elements after %d rotations are :\n",&k);

for(i=(k%5);i<5;i++)

printf("|%d|",ar[i]);

for(i=0;i<(k%5);i++)

printf("|%d|",ar[i]);

return 0;

}

**output:**

enter no of elements in an array: 5

Enter 5 array elements:

10

12

31

14

7

Array elements are:

|10||12||31||14||7|

Enter the value of k: 3

Array elements after 3 rotations are :

|14||7||10||12||31|