**Assignment – 2**

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**Question 1**

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

**Code**

#include <stdio.h>

#include <conio.h>

void delet\_from\_beg(int arr[],int n)

{

int i=0;

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

arr[i]=arr[i+1];

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

printf("%d ",arr[i]);

}

void delet\_from\_pos(int arr[],int n,int pos)

{

int i;

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

arr[i] = arr[i+1];

printf("Resultant array:\n");

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

printf("%d ", arr[i]);

}

int main()

{

int c=0, choice=0;

int arr[]={1,2,3,4,5,6,7,8};

printf("\n1. Delete from beginning\n");

printf("\n2. Delete from position\n");

printf("\nEnter Choice: ");

scanf("%d",&choice);

switch(choice)

{

case 1:delet\_from\_beg(arr,8);break;

case 2:printf("\nEnter position: ");

scanf("%d",&c);

delet\_from\_pos(arr,8,c);break;

}

return 0;

}

**Question 2**

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

**Code**

#include <stdio.h>

#include <conio.h>

int main()

{

int arr[] = {1, 2, 3, 4, 5,6,7,8};

int length = sizeof(arr)/sizeof(arr[0]);

int k = 0;

printf("Enter number of rotations: ");

scanf("%d",&k);

printf("Original array: \n");

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

printf("%d ", arr[i]);

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

{

int j, first;

first = arr[0];

for(j = 0; j < length-1; j++)

arr[j] = arr[j+1];

arr[j] = first;

}

printf("\n");

printf("Array after %d rotation: \n",k);

for(int i = 0; i < length; i++){

printf("%d ", arr[i]);

}

return 0;

}