**ASSIGNMENT - 1**

#include <stdio.h>

int main()

{

int a[10],size,i,pos,del\_pos,val;

printf("Enter the number of elements of array-");

scanf("%d",&size);

if(size>10)

{

printf("Array overflows");

}

else

{

printf("The number of elements of array-%d",size);

printf("\nEnter the elements of the array-");

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

{

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

}

printf("\nThe elements of the array\n");

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

{

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

}

printf("\nEnter the value you want to insert:");

scanf("%d",&val);

printf("Enter the position where you want to insert:");

scanf("%d",&pos);

if(pos<0 || pos>size+1)

{

printf("Invalid position");

}

else

{

for(i=size-1; i>=pos-1;i--)

{

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

}

a[pos-1]=val;

size++;

printf("\nThe elements of the array\n");

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

{

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

}

}

printf("\nEnter the position where you want to delete:");

scanf("%d",&del\_pos);

if(del\_pos<0||del\_pos>size)

{

printf("Wrong position");

}

else

{

for(i=del\_pos-1;i<size-1;i++)

{

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

}

size--;

printf("\nThe elements of the array\n");

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

{

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

}

}

}

return 0;

}

**OUTPUT**

