

Index

[illegible]

/* Write a program to insert and delete elements from appropriate position in an array */

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i, size, position, element;
```

```
    printf("Enter the size of the array: ");
```

```
    scanf("%d", &size);
```

```
    int arr[size];
```

```
    printf("Enter the elements of the array: \n");
```

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

```
    {
```

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

```
    }
```

```
    printf("Enter the position to insert: ");
```

```
    scanf("%d", &position);
```

```
    printf("Enter the element to insert: ");
```

```
    scanf("%d", &element);
```

```
    for(i=size-1; i>=position; i--)
```

```
    {
```

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

```
    }
```

```
    arr[position] = element;
```

```
    size++;
```

```
    printf("Array after inserting %d at position %d: \n",
```

```
        element, position);
```

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

```
    {
```

Teacher's Signature _____

Output

Enter the size of the array : 3

Enter the elements of the array :

0 1 2

Enter the position to insert : 2

Enter the element to insert : 7

Array after inserting 7 at position 2 :

0 1 7 2

Enter the ~~position~~ to delete : 2

Array after deleting element at position 2 :

0 1 2

~~0 0 0 2~~


```
printf("%d", arr[i]);  
}  
printf("\n");  
printf("Enter the position to delete : ");  
scanf("%d", &position);  
for(i = position; i < size - 1; i++)  
{  
    arr[i] = arr[i + 1];  
}  
size --;  
printf("Array after deleting element at position  
%d : ", position);  
for(i = 0; i < size; i++)  
{  
    printf("%d", arr[i]);  
}  
printf("\n");  
return 0;  
}
```

Pratik Kumar Panda
BS-23CP-140

/* Write a program to search an element and print the total time of occurrence in the array */

#include <stdio.h>

~~#include <stdio.h>~~

int main()

{

int arr[30];

int size, key;

~~int arr[30];~~

printf("Enter the size of the array: ");

scanf("%d", &size);

printf("Enter %d elements:", size);

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

{

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

}

printf("Enter the element to search: ");

scanf("%d", &key);

int count = 0;

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

{

if (arr[i] == key)

{ count++; }

}

if (count == 0) {

printf("Element not found in the array.\n");

}

else

{ printf("Total occurrences: %d\n", count); }

return 0;

}

Teacher's Signature

Pratik Kumar Panda
BS-22CP-140

Enter the size of the array: 8

Enter 8 elements: 1 2 6 3 8 3 2 6

Enter the element to search: 6

Total occurrences: 2

/* To delete all occurrence of an element in an array */

#include <stdio.h>

int main()

{

int size, element, i;

printf("Enter the size of the array: ");

scanf("%d", &size);

int a[size];

printf("Enter the elements of the array: \n");

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

{

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

}

printf("Enter element to delete: ");

scanf("%d", &element);

int newSize = 0;

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

{

if (a[i] != element)

{

a[newSize++] = a[i];

}

}

printf("Array after deleting all occurrences of %d: \n", element);

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

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

}

printf("\n");

return 0;

}

Pratik Kumar Panda

BS-23CP-140

Teacher's Signature

Enter the size of the array: 8

Enter the elements of the array:

1 2 5 8 5 7 5

Enter element to delete: 5

Array after deleting all occurrences of 5:

1 2 8 7