

Insertion

CODE 1 :

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

```
int main(){
```

```
    int j;
```

```
    printf("ENTER THE SIZE OF A ARRAY:\n");
```

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

```
    int array[j];
```

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

```
    for(int i= 0; i<=j; i++){
```

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

```
    }
```

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

```
    for(int i= 0; i<=j; i++){
```

```
        printf("%d ", array[i]);
```

```
    }
```

```
    printf("\n");
```

```
    int k, item;
```

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

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

```
    printf("Enter the value of a Insert number:\n");
```

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

```
for(int n = j ; n>= k; n--){
    array[n+1] = array [n];
}
array[k] = item;
j = j+1;

printf("New array:\n");
for(int i= 0; i<j+1; i++){
    printf("%d ", array[i]);

}

return 0;
}
```

TERMINAL:

```
"E:\lab class 162.30\insertion 1" X + v
ENTER THE SIZE OF A ARRAY:
4
Enter the value of array:
2
8
3
5
1
Value of the array:
2 8 3 5 1
Enter the value of Position:
2
Enter the value of a Insert number:
9
New array:
2 8 9 3 5 1
Process returned 0 (0x0)    execution time : 15.312 s
Press any key to continue.
```

CODE 2:

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

```
int main() {  
    int j;  
    printf("ENTER THE SIZE OF A ARRAY:\n");  
    scanf("%d", &j);  
  
    int array[j];  
    printf("Enter the value of array:\n");  
    for(int i = 0; i < j; i++) {  
        scanf("%d", &array[i]);  
    }  
  
    printf("Value of the array:\n");  
    for(int i = 0; i < j; i++) {  
        printf("%d ", array[i]);  
    }  
    printf("\n");  
  
    int k;  
    printf("Enter the position to delete: ");  
    scanf("%d", &k);  
  
    for(int i = k; i < j - 1; i++) {  
        array[i] = array[i + 1];  
    }  
}
```

```
j = j - 1;

printf("New array:\n");
for(int i = 0; i < j; i++) {
    printf("%d ", array[i]);
}
printf("\n");

return 0;
}
```

TERMINAL:

```
"E:\lab class 162.30\insertion t  × + v
ENTER THE SIZE OF A ARRAY:
4
Enter the value of array:
1
2
4
2
Value of the array:
1 2 4 2
Enter the position to delete: 1
New array:
1 4 2

Process returned 0 (0x0)    execution time : 9.217 s
Press any key to continue.
|
```