

05/12/23

- 1) Write a C program to search for a key element using linear search
- 2) Write a C program to sort the numbers using (selection sort) - bubble sort

Program 1

#include <stdlib.h>

#include <stdio.h>

void main ()

{

int a[10];

int i, key;

printf("Enter array elements");

for (i = 0; i < 5; i++) → scanf("%d", &a[i]);

printf("Enter key element");

scanf("%d", &key);

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

if (a[i] == key)

{

printf("Element found");

}

exit(0);

printf("Element not found");

}

Output :

Enter array elements

27 22 35 39 46

Enter the key element: 35

Key found


```
#include <stdio.h>
#include <stdlib.h>
void main()
{
    int a[10];
    int i, j, m;
    int temp;
    printf("Read m");
    scanf("%d", &m);
    printf("Enter the element");
    for (i = 0; i < m; i++)
        scanf("%d", &a[i]);
```

```

    for (j = 0; j < m - 1; j++)
    {
        for (i = 0; i < m - 1 - j; i++)
        {
            if (a[i] > a[i + 1])
            {
                temp = a[i];
                a[i] = a[i + 1];
                a[i + 1] = temp;
            }
        }
    }
}
```

```

    for (i = 0; i < m; i++)
    {
        printf("%d\t", a[i]);
    }
}
```

Output:

Read m: 3

Enter array element 1

4 5

4

1

4

4 5

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```
class hello
{
    public static
    {
        System.out
    }
}
```

Output:
hello world

[Signature]
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