

## **EXPERIMENT NO. 10**

//The Code Is As Follows :-

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

```
/* Including standard input-  
output library for functions  
like printf() and scanf().*/
```

```
int main()
```

```
/* Main function where  
execution begins.*/
```

```
{
```

```
printf("Name:-Rushi Daulatkar \n");
```

```
//Printing Name of Coder
```

```
printf("Roll no. :-53\n");
```

```
//Printing Roll No. of Coder
```

```
int a[10];
```

```
/* Declaring an array 'a' of  
size 10 to store integer values.*/
```

```
int i,num,flag=0,pos;
```

```
/* Declaring integer variables i (loop counter), num (number to search), flag (to indicate  
search status), pos (position of found element).*/
```

```
printf("\n Enter 10 Elements :");
```

```
/*Prompting user to  
enter 10 elements.*/
```

```
for(i=0;i<10;i++)
```

```
/* Loop to read 10  
elements from user.*/
```

```
{
```

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

```
/* Reading an integer input
```

and storing it in array 'a'.\*/

}

printf("\n Enter the number you want to search: "); /\* Prompting user to enter  
the number to search.\*/

scanf("%d",&num); /\* Reading the number to  
search from user.\*/

for(i=0;i<10;i++) /\* Loop to search for the  
entered number in the array.\*/

{

if(a[i]==num) /\* Checking if the current  
element matches the number to search.\*/

{

printf("\n Search is Successful "); /\* Displaying message  
indicating successful  
search.\*/

pos=i+1; /\*Storing the position of  
found element.\*/

flag=1; /\* Setting flag to 1 to  
indicate successful search.\*/

printf("\n Element is present at position %d",pos); /\* Displaying the  
position of the found  
element.\*/

break; /\* Exiting the loop as the  
element is found.\*/

}

}

```

if(flag==0)                                /* Checking if flag is still 0,
                                           indicating unsuccessful
                                           search.*/

{
    printf("\n Search is unsuccessful: Element is not present");    /* Displaying
                                                                    message indicating
                                                                    unsuccessful search.*/

}

return 0;                                /* Returning 0 to
                                           indicate successful
                                           completion of program.*/

}                                           /*END OF THE
                                           PROGRAM*/

```

OUTPUT :-

```

/tmp/2yH91Et3CN.o
Name:-Rushi Daulatkar
Roll no. :-53

Enter 10 Elements :10 20 30 40 50 60 70 80 90 69

Enter the number you want to search: 69

Search is Successful
Element is present at position 10

=== Code Execution Successful ===|

```

/tmp/tYsn5yTFd8.o

Name:-Rushi Daulatkar

Roll no. :-53

Enter 10 Elements :10 20 30 40 50 60 70 80 90 69

Enter the number you want to search: 53

Search is unsuccessful: Element is not present

=== Code Execution Successful ===