



**SIMATS**  
ENGINEERING



**SIMATS**  
Saveetha Institute of Medical And Technical Sciences  
(Declared as Deemed to be University under Section 3 of UGC Act 1956)

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**COURSE NAME : DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS**

**COURSE CODE : CSA0302**

### **13. WRITE A C PROGRAM TO SEARCH ELEMENT IN AN ARRAY**

#### **C PROGRAMMING CODE:**

```
#include <stdio.h>
int main() {
int a[100], n, key, i, found=0;
printf("Enter n: ");
scanf("%d",&n);
for(i=0;i<n;i++) scanf("%d",&a[i]);
printf("Enter element to search: ");
scanf("%d",&key);
for(i=0;i<n;i++)
if(a[i]==key) {found=1; break;}
if(found) printf("Element found at position %d", i+1);
else printf("Element not found");
}
```

## OUTPUT:

main.c	Output
<pre>1 #include &lt;stdio.h&gt; 2~ int main() { 3     int a[100], n, key, i, found=0; 4     printf("Enter n: "); 5     scanf("%d",&amp;n); 6     for(i=0;i&lt;n;i++) scanf("%d",&amp;a[i]); 7     printf("Enter element to search: "); 8     scanf("%d",&amp;key); 9     for(i=0;i&lt;n;i++) 10         if(a[i]==key) {found=1; break;} 11     if(found) printf("Element found at position %d", i+1); 12     else printf("Element not found"); 13 } 14</pre>	<pre>Enter n: 4 100 200 300 600 Enter element to search: 600 Element found at position 4  === Code Execution Successful ===</pre>