

DAA NotesBinary Search Program

```
#include <iostream.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int a[5] = {10, 20, 30, 40, 50};
```

```
int lr = 0, up = 4, f = 0, mid, item;
```

```
clrscr();
```

```
cout << "Enter item to be found";
```

```
cin >> item;
```

```
while (lr <= up)
```

```
{
```

```
mid = (lr + up) / 2;
```

```
if (a[mid] == item)
```

```
{
```

```
f = 1;
```

```
break;
```

```
}
```

```
if (a[mid] < item)
```

ln = mid + 1;

else

up = mid - 1;

g

if (f == 1)

cout << "item found at location" << mid;

else

cout << "not found";

return 0;

g

JPNOTES