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Roll No:- 66   **Class:-** SYBCA

Batch:-

Practical 7 :- Implementation of Binary Search

```cpp
#include<iostream.h>
#include<conio.h>
class bSearch
{
 public:
 int a[10],lb,ub;
 bSearch()
 {
   lb=0;
   ub=4;
 }
 void getdata()
 {
   cout<<"\nEnter five elements in ascending order:- ";
   for(int i=lb;i<=ub;i++)
   cin>>a[i];
 }
 void binary()
 {
  int beg,end,mid,item;
  cout<<"\nEnter the element to be search:- ";
  cin>>item;
  beg=lb;
  end=ub;
  mid=(beg+end)/2;
  while (beg<=end)
  {
    if(a[mid]<item)
    beg=mid+1;
    else if(a[mid]==item)
    {
        cout<<"\nThe number"<<item<<"found at position"<<mid+1;
        break;
```

```
    }
    else
    end=mid-1;
    mid=(beg+end)/2;
  }
  if(beg>end)
  cout<<"\nThe number"<<item<<"is not founf in given array";
  }
};
void main()
{
  clrscr();
  bSearch b;
  b.getdata();
  b.binary();
  getch();
}
```

OUTPUT:-

Enter five elements in ascending order: 12 45 89 90 100

Enter the element to be search:- 89

The number89found at position3