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**Roll No: 63 Batch: S4**

**Program 9= Program for Binary Search**

#include <stdio.h> # include <conio.h> void main() { int i, start, end, mid, n, target, array[100]; printf("Enter number of elements\n"); scanf("%d",&n); printf("Enter %d numbers\n", n); // Enter the sorted list for(i = 0; i < n; i++) scanf("%d",&array[i]); printf("Enter value to find\n"); scanf("%d", &target); start = 0; end = n - 1; while (start <= end)

{ mid = (start+end)/2; if (target == array[mid] )

{ printf("%d found at location %d\n", target, mid+1); break; }

if(target < array[mid] )

end = mid - 1;

else

start = mid + 1;

} if(start > end) printf("%d isn't present in the list\n", target); getch(); }

**Output=**

