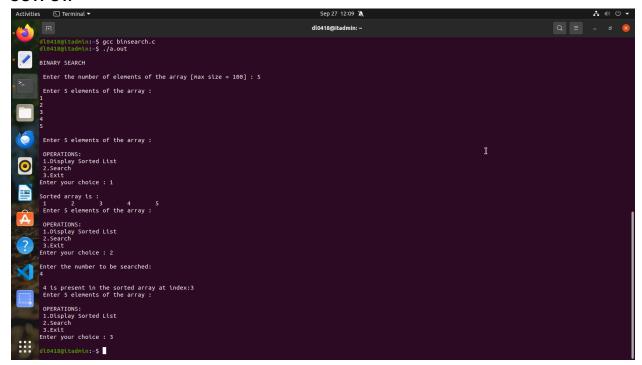
## **EXPERIMENT NO.09**

## CODE:

```
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               #include <stdio.h>
#include <stdlib.h>
               void main()
                     int arr[100], i, n, x, choice, flag = 0;
                     printf("\nBINARY SEARCH \n");
printf('\n Enter the number of elements of the array [max size = 100] : ");
scanf( %d', &n);
for (i = 0; i < n; i++)
{
    scanf( %d', &arr[i]);
}</pre>
                      }
insertionSort(arr, n);
do{
0
                   printf("\n Enter %d elements of the array : \n", n);
printf("\n OPERATIONS: );
printf("\n I.Display Sorted List \n 2.Search \n 3.Exit");
printf("\n" i.Display Sorted List \n 2.Search \n 3.Exit");
printf("\n" inter your choice : ");
sarlch (choice);
switch (choice)
{
case ::
printf("\nSorted array is : \n");
printf("\nSorted array is : \n");
for (i = 0; i < n; i++)
{
    printf(" %d \t", arr[i]);</pre>
                                             :
printf("\nEnter the number to be searched: \n");
scanf("%d',&x);
int beg=",end=n-1,nid;
while (beg<end)
{
    mid=(beg+end)//;
    if (arr[mid]==x)</pre>
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Activities  
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                                              white (beg<=end)
{
  mid=(beg+end)/2;
  if (arr[mid]==x)</pre>
                                            printf( "\n %d is present in the sorted array at index:%d",x,nid);
flag=;;
break;
                                                end = mid - 1;
                                                printf("\n Program Finished !! Thank You");
break;
                     } while (choice != 3):
                             temp = arr[i];
***
                                                                                                                                                                                                                                     C ▼ Tab Width: 8 ▼ Ln 73, Col 27 ▼
```

## **OUTPUT:**



SUBMITTED BY:SHAMAL BHANUDAS DEORE CLASS/DIV:SY-IT-A ROLL NO.18