Program 5: Design, develop and execute a program in C to create a Binary tree using arrays and display the tree.

```c
#include<stdio.h>
#include<conio.h>
#define SIZE 100

int a[SIZE],c, p, n=0;

void bst(int ele)
{
        if(a[0]==NULL)
        {
                a[0]=ele;
                return;
        }
        c=0;p=-1;
        while(a[c]!=NULL)
        {
                p=c;
                if(ele<a[c])
                        c=2*c+1;
                else
                        c=2*c+2;
        }
                a[c]=ele;
}
void display()
{
        int i;
        for(i=0;i<SIZE;i++)
        {
         if(a[i]==NULL)
         continue;
        printf("a[%d]=%d\n",i,a[i]);
        }
}

void main()
{
        int ch,i,j,ele;
        clrscr();
        for(i=0;i<n;i++)
                a[i]=NULL;
        printf("\n1.bst\n2.display\n");
```

```c
for(;;)
{
        printf("\nEnter choice\n");
        scanf("%d",&ch);
        switch(ch)
        {
                case 1:printf("\enter no of ele  to enter\n");
                        scanf("%d",&j);
                        printf("\nEnter the array of elements\n");
                        for(i=0;i<j;i++)
                        {
                        scanf("%d",&ele);
                        bst(ele);
                        }
                        break;

                case 2:display();
                        break;

                case 3: exit(0);
        }
}
}
```