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//Aim 13(a): Write a program in C to create a Binary Search Tree of Integers
#include <stdio.h>
#include <stdlib.h>
typedef struct node_Binary_Search_Tree
{
  int data;
  struct node_Binary_Search_Tree *left,*right;
}BST;
BST *root,*temp,*ttemp;

void addnode(int node,int val)
{
 if(node==1)
 {
  root=(BST*)malloc(sizeof(BST));
  root->data=val;
  root->left=root->right=NULL;
 }
 else
 {
  BST *p;
  temp=root;
  while(temp!=NULL)
  {
   ttemp=temp;
   if(temp->data>val)
    temp=temp->left;
   else
    temp=temp->right;
  }
 p=(BST*)malloc(sizeof(BST));
 p->data=val;
 p->left=p->right=NULL;
 if(ttemp->data>val)
  ttemp->left=p;
 else
  ttemp->right=p;
 }
}
void in_order(BST *p)
{
 if(p!=NULL)
 {
  in_order(p->left);
  printf("%d\t",p->data);
  in_order(p->right);
 }
}
```

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void main()
{
 int n,i,val;
 clrscr();
 printf("\nEnter total number of nodes in a Binary Search Tree: ");
 scanf("%d",&n);
 for(i=1;i<=n;i++)
 {
  printf("\nEnter element %d of BST: ",i);
  scanf("%d",&val);
  addnode(i,val);
 }
 in_order(root);
 printf("\nRoot node value is %d\n",root->data);
 getch();
}
```

Output 13(A):