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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);
}
}
```

```
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):

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DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC — X

Enter total number of nodes in a Binary Search Tree: 5

Enter element 1 of BST: 60

Enter element 2 of BST: 70

Enter element 3 of BST: 100

Enter element 4 of BST: 190

Enter element 5 of BST: 2
2 60 70 100 190

Root node value is 60
```