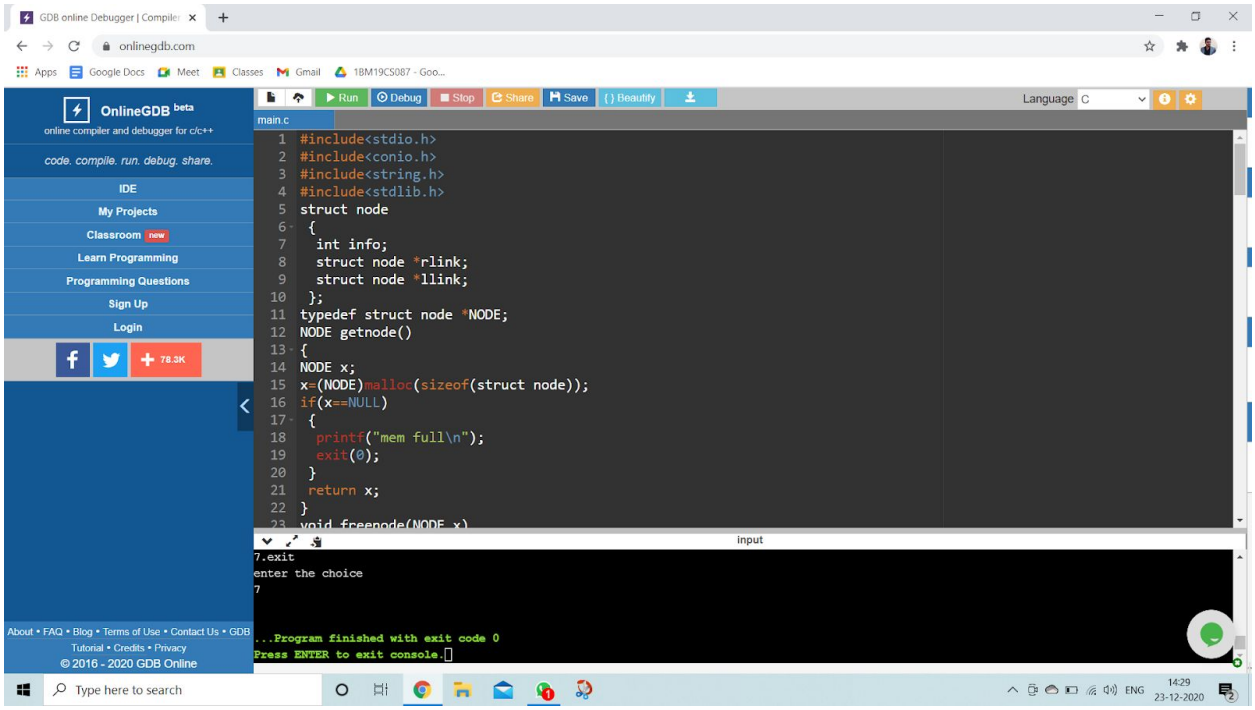
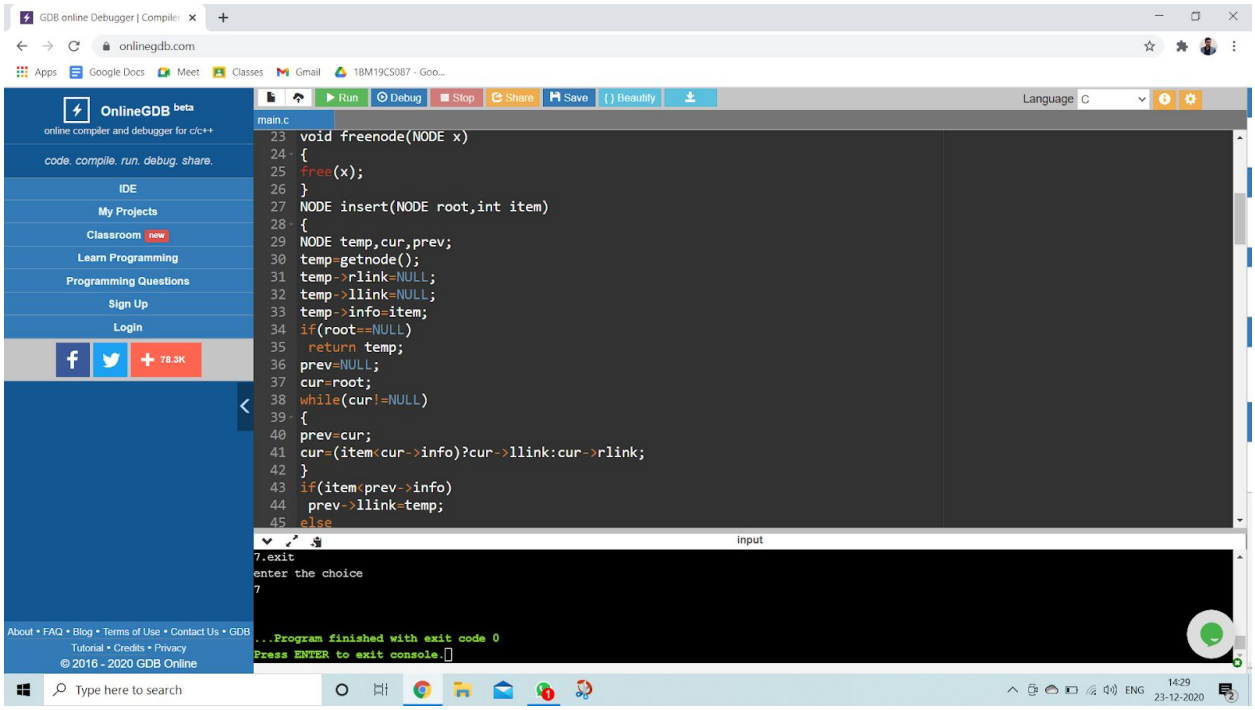
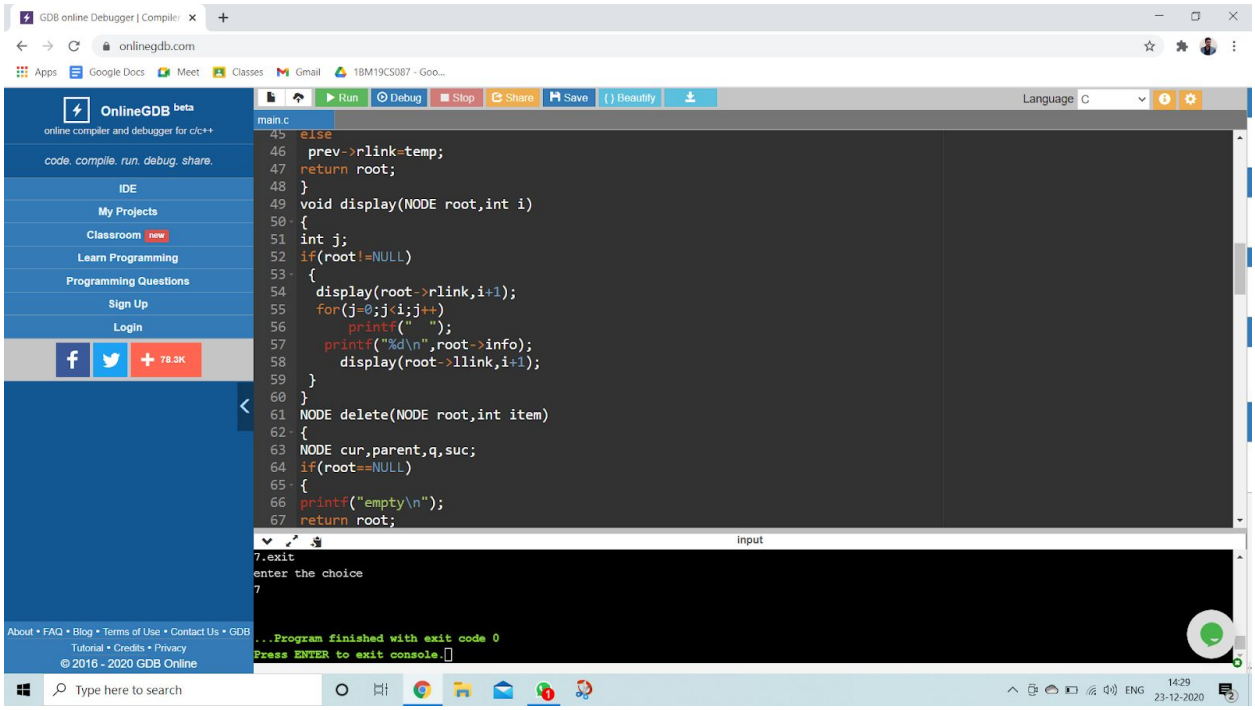
DS LAB PROGRAM 10

EXECUTION:-



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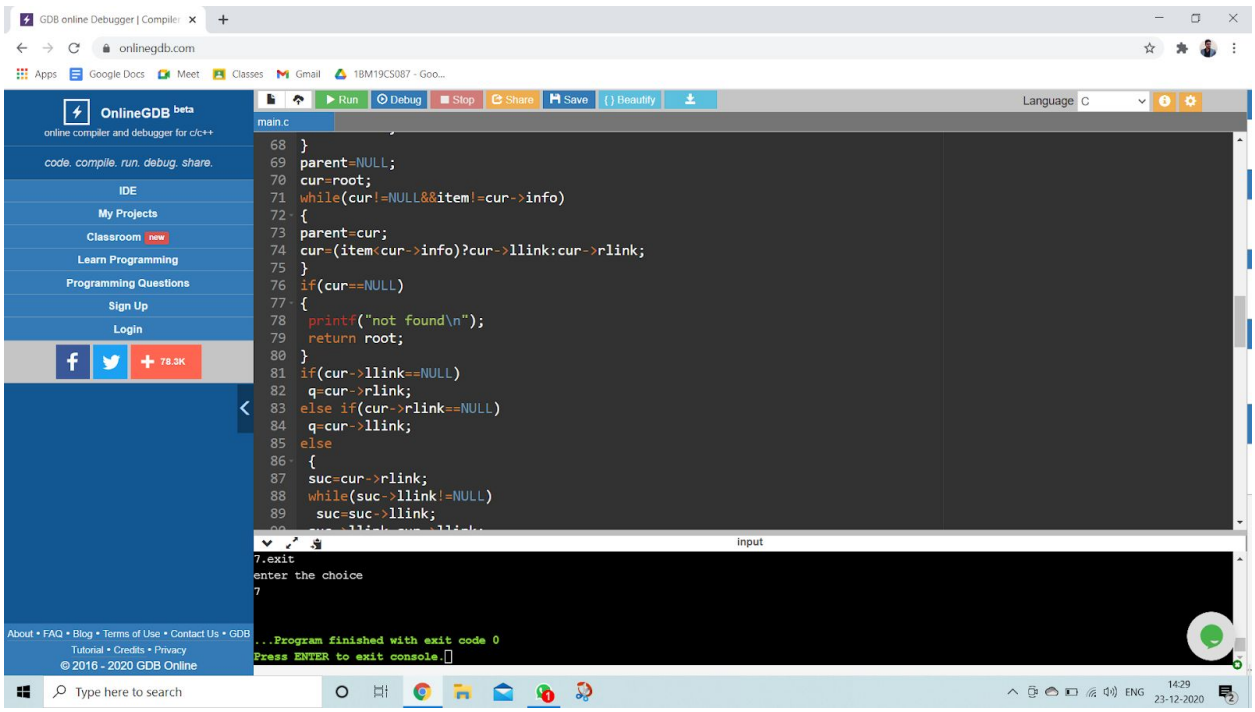
{ } Beautify
Language C
main.c
45 else
46 prev->rlink=temp;
47 return root;
48 }
49 void display(NODE root,int i)
50 {
51 int j;
52 if(root!=NULL)
53 {
54 display(root->rlink,i+1);
55 for(j=0;j<i;j++)
56 printf(" ");
57 printf("%d\n",root->info);
58 display(root->llink,i+1);
59 }
60 }
61 NODE delete(NODE root,int item)
62 {
63 NODE cur,parent,q,suc;
64 if(root==NULL)
65 {
66 printf("empty\n");
67 return root;
input
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
14:29
23-12-2020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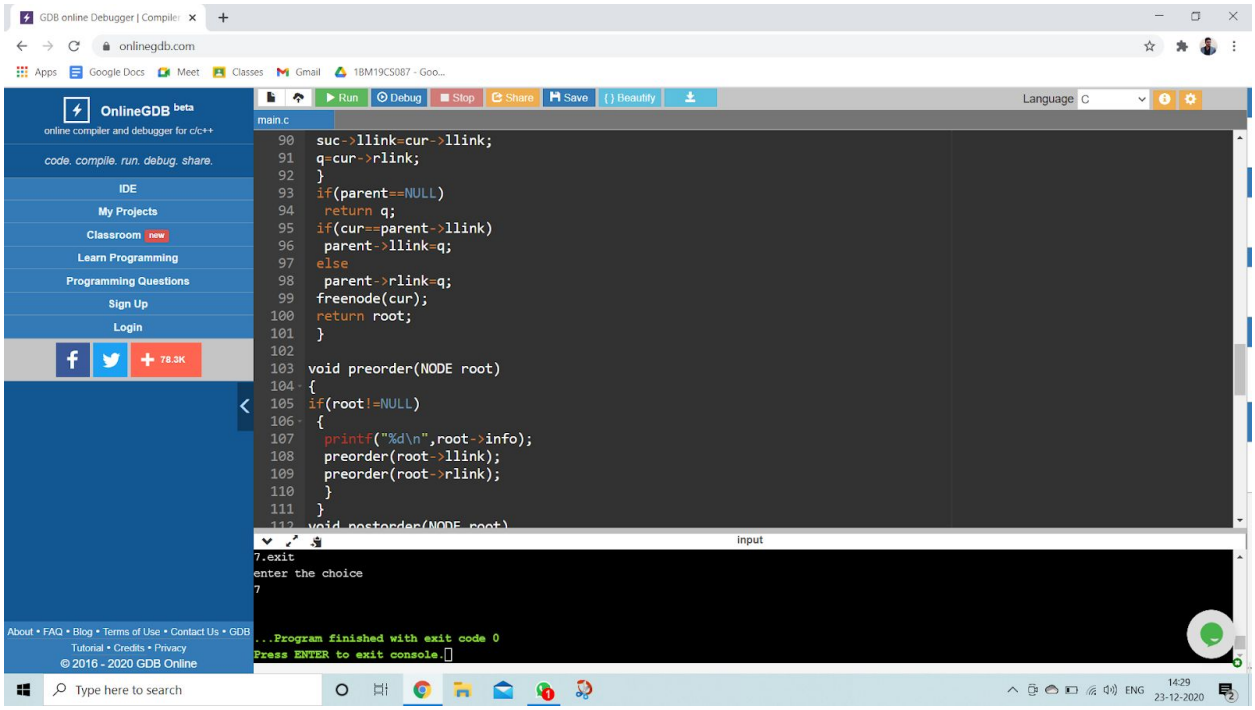
Save
{ } Beautify
Language C
main.c
68 }
69 parent=NULL;
70 cur=root;
71 while(cur!=NULL&&item!=cur->info)
72 {
73 parent=cur;
74 cur=(item<cur->info)?cur->llink:cur->rlink;
75 }
76 if(cur==NULL)
77 {
78 printf("not found\n");
79 return root;
80 }
81 if(cur->llink==NULL)
82 q=cur->rlink;
83 else if(cur->rlink==NULL)
84 q=cur->llink;
85 else
86 {
87 suc=cur->rlink;
88 while(suc->llink!=NULL)
89 suc=suc->llink;
input
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
14:29
23-12-2020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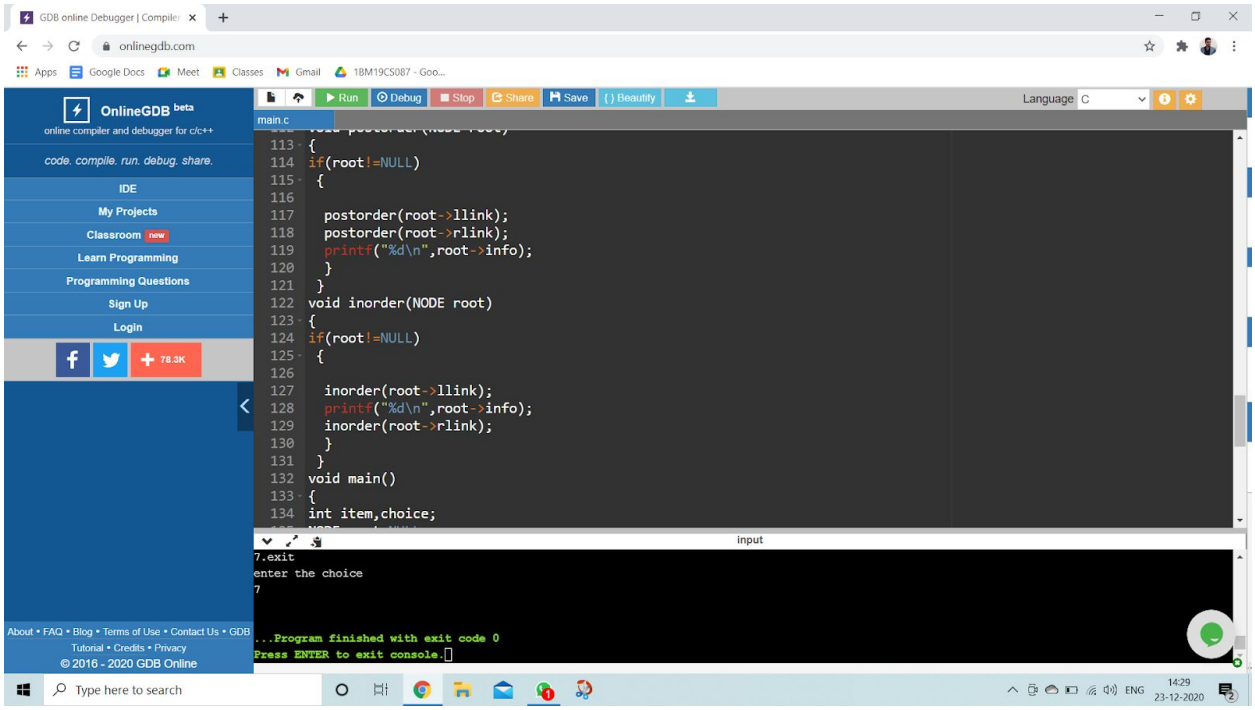
{ } Beautify
Language C
main.c
90 suc->llink=cur->llink;
91 q=cur->rlink;
92 }
93 if(parent==NULL)
94 return q;
95 if(cur==parent->llink)
96 parent->llink=q;
97 else
98 parent->rlink=q;
99 freenode(cur);
100 return root;
101 }
102
103 void preorder(NODE root)
104 {
105 if(root!=NULL)
106 {
107 printf("%d\n",root->info);
108 preorder(root->llink);
109 preorder(root->rlink);
110 }
111 }
112 void postorder(NODE root)
input
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
14:29
23-12-2020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Save
{ } Beautify
Language C
main.c
{
if(root!=NULL)
{
postorder(root->llink);
postorder(root->rlink);
printf("%d\n",root->info);
}
}
void inorder(NODE root)
{
if(root!=NULL)
{
inorder(root->llink);
printf("%d\n",root->info);
inorder(root->rlink);
}
}
void main()
{
int item,choice;
input
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
14:29
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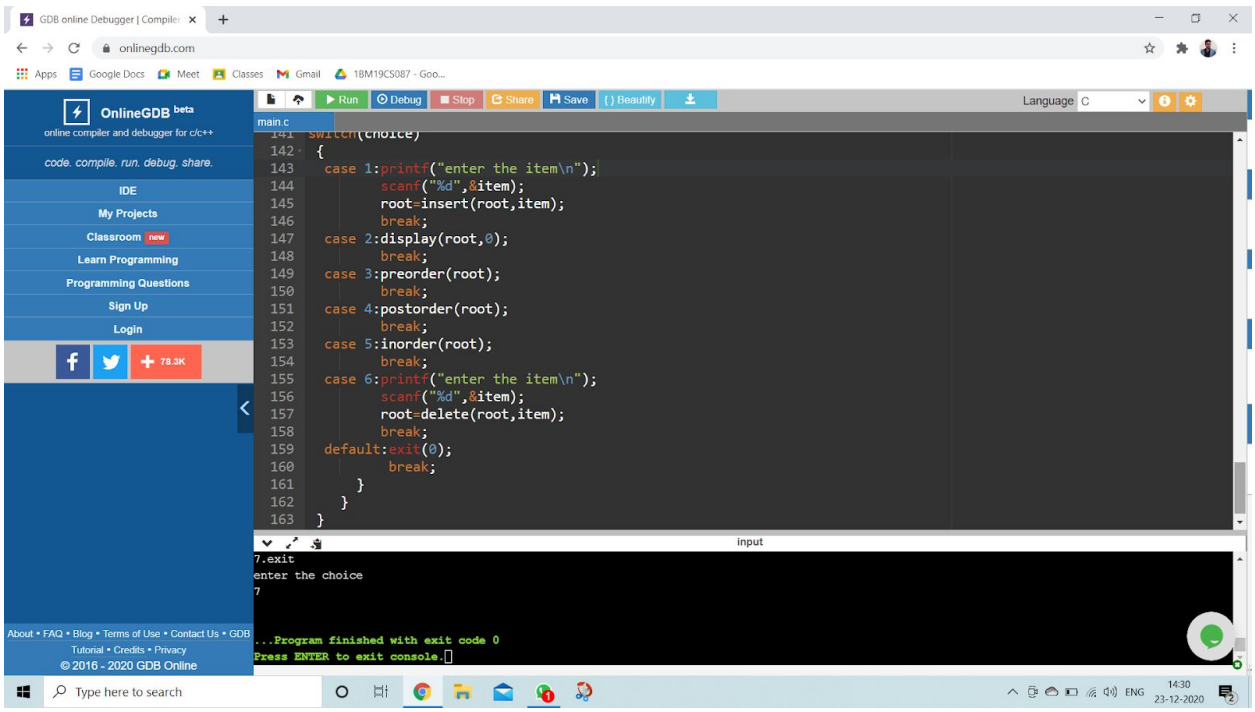
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Save
{ } Beautify
Language C
main.c
switch(choice)
{
case 1:printf("enter the item\n");
scanf("%d",&item);
root=insert(root,item);
break;
case 2:display(root,0);
break;
case 3:preorder(root);
break;
case 4:postorder(root);
break;
case 5:inorder(root);
break;
case 6:printf("enter the item\n");
scanf("%d",&item);
root=delete(root,item);
break;
default:exit(0);
break;
}
}
}
input
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
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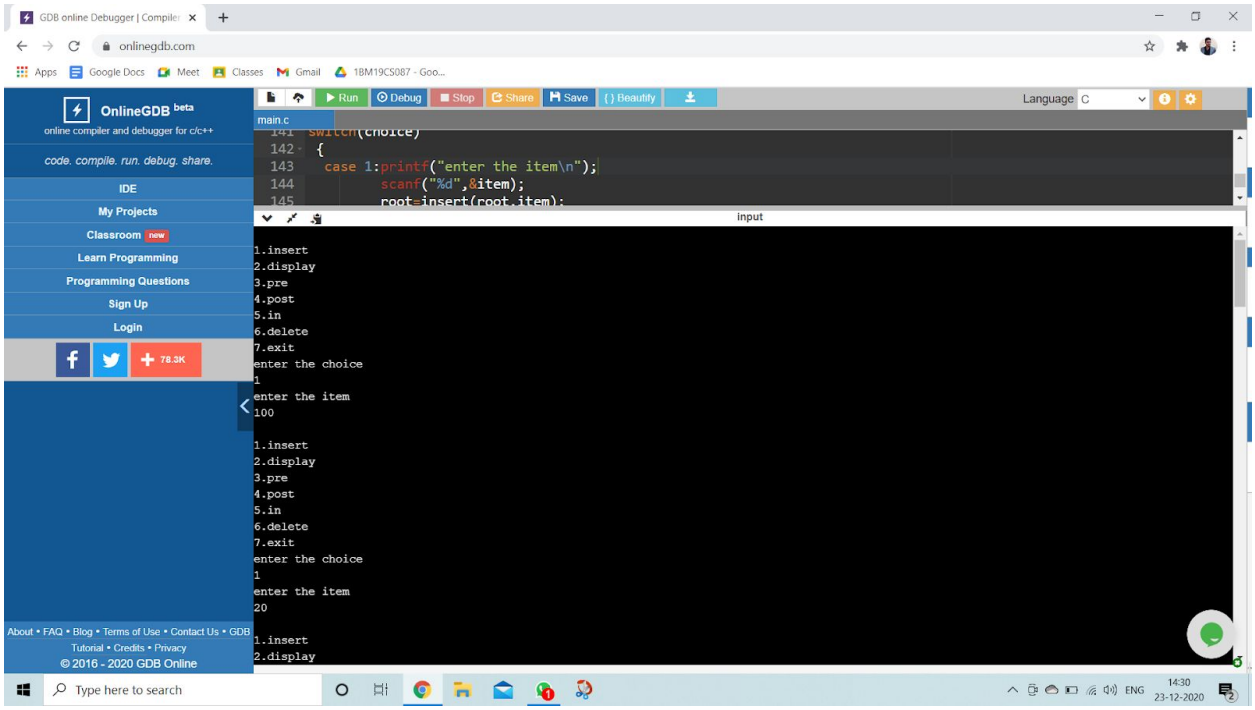
OUTPUT:-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Save
{ } Beautify
Language C
main.c
141 switch(choice)
142 {
143 case 1:printf("enter the item\n");
144 scanf("%d",&item);
145 root=insert(root,item);
input
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
100
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
20
1.insert
2.display
Type here to search
ENG
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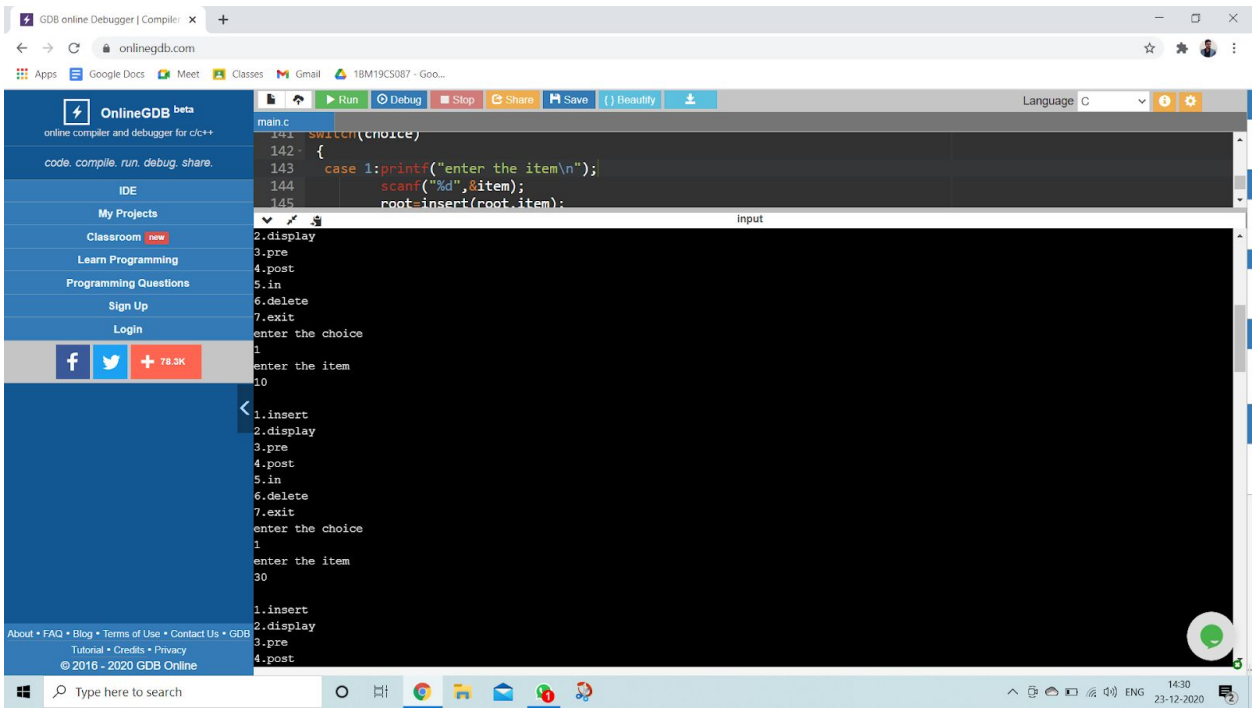
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{ } Beautify
Language C
main.c
141 switch(choice)
142 {
143 case 1:printf("enter the item\n");
144 scanf("%d",&item);
145 root=insert(root,item);
input
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
10
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
30
1.insert
2.display
3.pre
4.post
Type here to search
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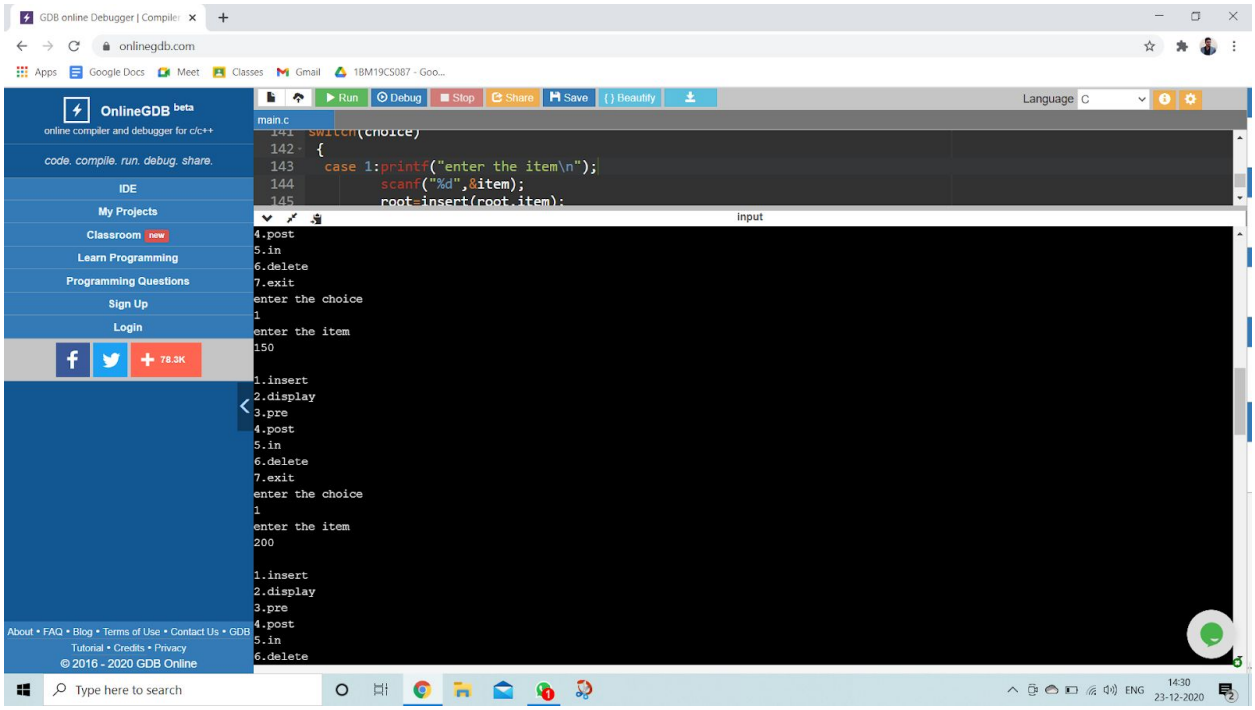
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{ } Beautify
Language C
main.c
switch(choice)
{
case 1:printf("enter the item\n");
scanf("%d",&item);
root=insert(root,item);
input
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
150
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
200
1.insert
2.display
3.pre
4.post
5.in
6.delete
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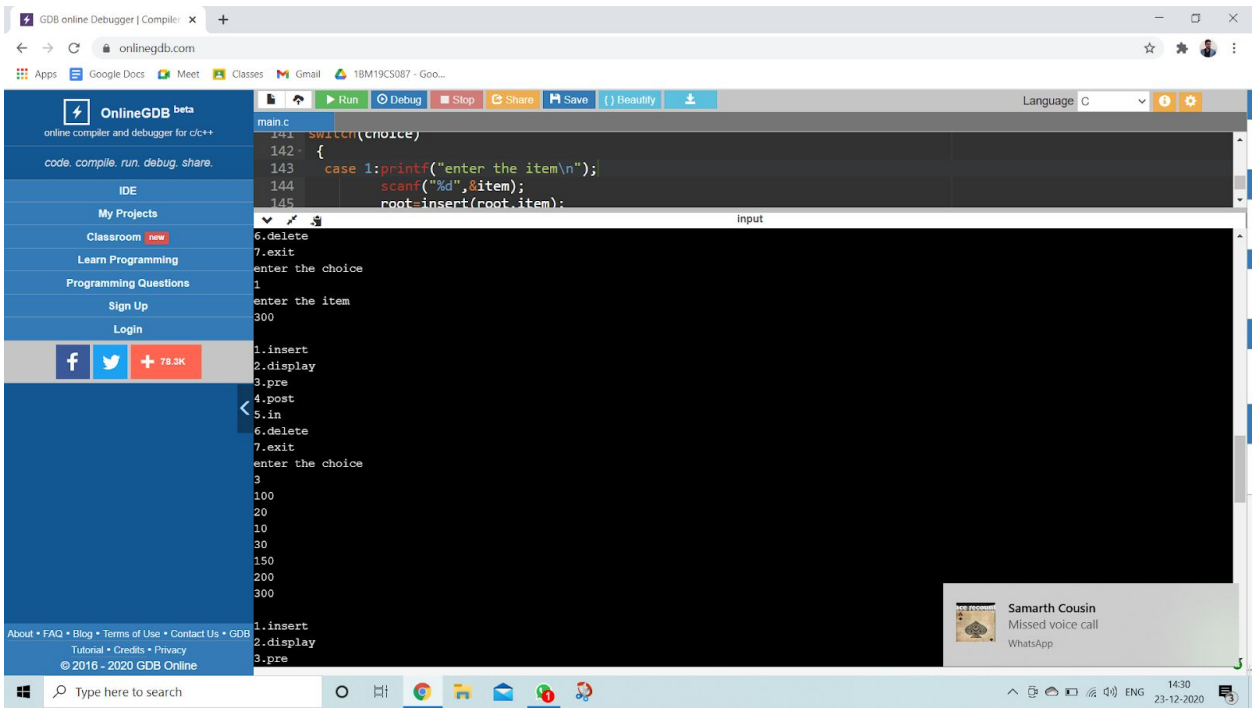
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Language C
main.c
switch(choice)
{
case 1:printf("enter the item\n");
scanf("%d",&item);
root=insert(root,item);
input
6.delete
7.exit
enter the choice
1
enter the item
300
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
3
100
20
10
30
150
200
300
1.insert
2.display
3.pre
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Missed voice call
WhatsApp
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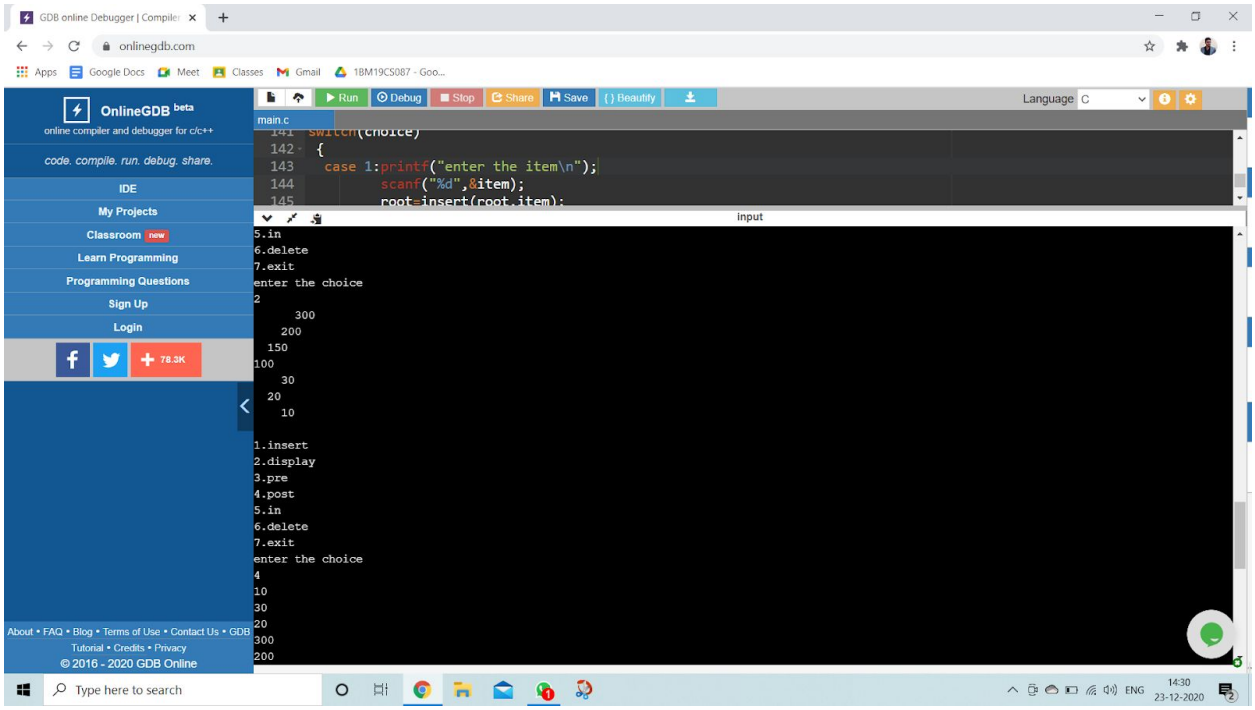
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switch(choice)
{
case 1:printf("enter the item\n");
scanf("%d",&item);
root=insert(root,item);
input
5.in
6.delete
7.exit
enter the choice
2
300
200
150
100
30
20
10
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
4
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30
20
300
200
Type here to search
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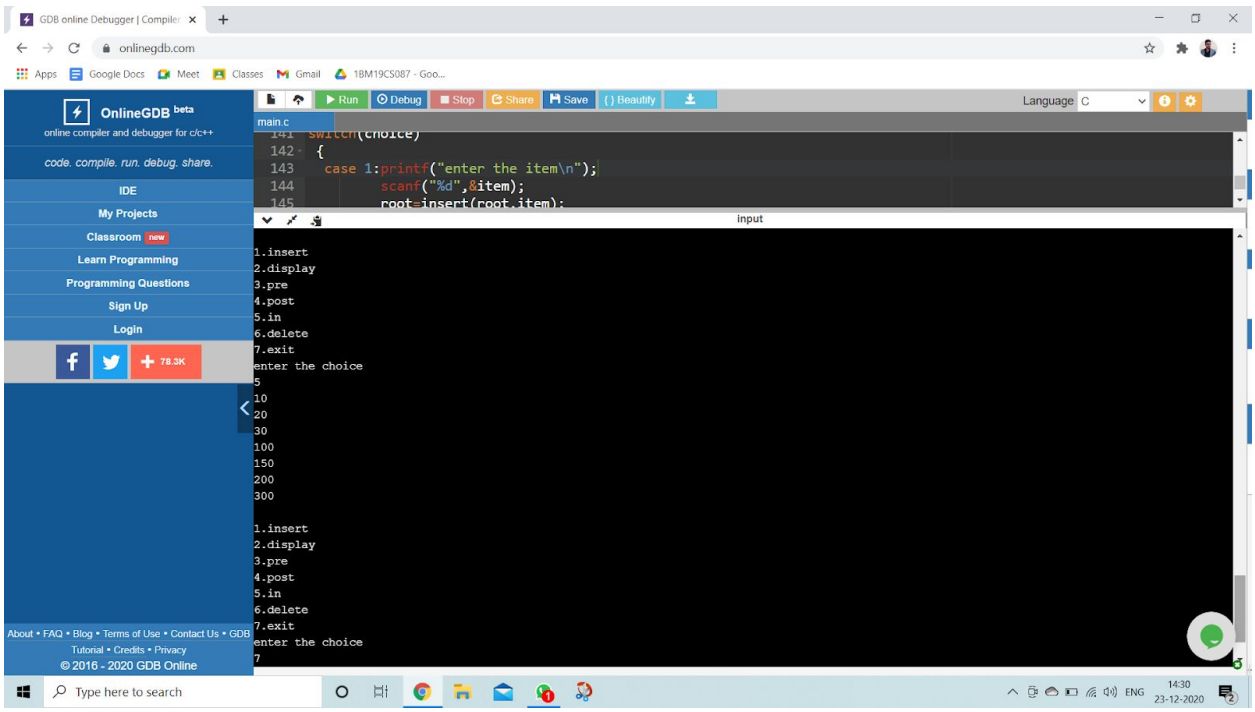
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4.post
5.in
6.delete
7.exit
enter the choice
5
10
20
30
100
150
200
300
1.insert
2.display
3.pre
4.post
5.in
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