EXPERIMENT NO.06

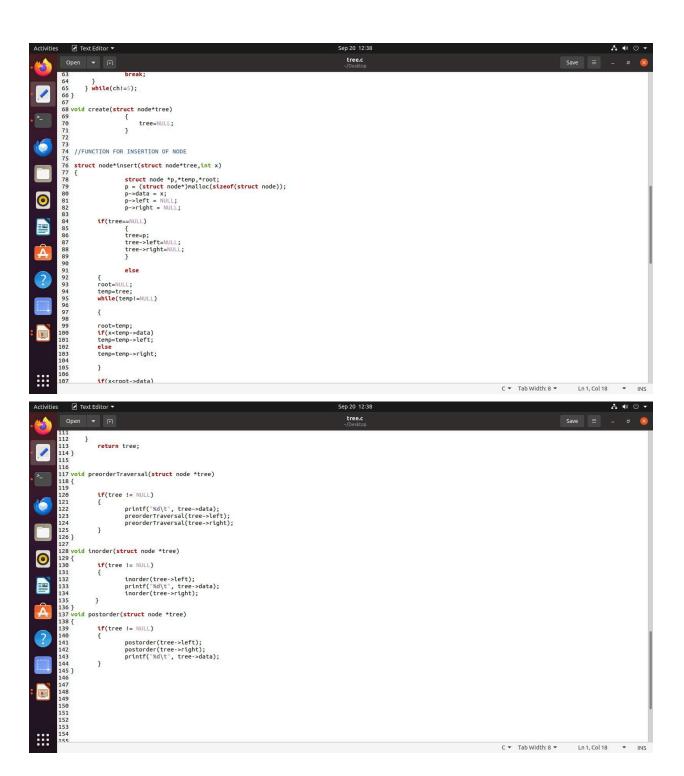
CODE:

```
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                                                                                                                                       tree.c
                          printf("IMPLEMENTATION OF BINARY TREE TRAVERSAL");
int ch,x;
struct node *ptr;
create(tree);
                        f
printf("\n MENU \n");
printf(\n 1. Insert Element");
printf(\n 2. Preorder Traversal");
printf('\n 3. Inorder Traversal");
printf('\n 4. Postorder Traversal");
printf('\n 5.EXIT \n");
printf('\n\n Enter your option : ");
scanf('\xd', &ch);
switch(ch)
{
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                                      printf("Enter the data to be inserted:");
scanf("%d",&x);
tree=insert(tree,x);
break;
                                      printf("Elements in inorder traversal are:");
inorder(tree);
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                      printf('\n 4. Postorder Traversal");
printf('\n 5.EXIT \n");
printf('\n\n Enter your option : ");
scanf('%d', 8ch);
swttch(ch)
{
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                                                                                                                                        tree.c
                                                                                                                                                                                                                                      Save ≡ _ ø
                                      printf("Enter the data to be inserted:");
scanf("%d",&x);
tree=insert(tree,x);
break;
                                      printf("Elements in inorder traversal are:");
inorder(tree);
printf("\n");
break;
                                      printf("Elements in preorder traversal are:");
preorder(tree);
printf("\n");
break;
                                      printf("Elements in postorder traversal are:");
postorder(tree);
printf("\n");
break;
                                      printf("EXIT:Program finished");
break;
                         default:printf("ENTER VALID CHOICE(1,2,3,4,5):");
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```



OUTPUT:

```
MENU
1. Insert Element
Preorder Traversal
Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 1
Enter the value of the new node : 1
MENU
1. Insert Element
Preorder Traversal
3. Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 1
Enter the value of the new node : 2
MENU
1. Insert Element
2. Preorder Traversal
Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 1
Enter the value of the new node : 3
MENU
1. Insert Element
2. Preorder Traversal
Inorder Traversal
4. Postorder Traversal
5. Exit
```

```
Enter your option : 2
The elements of the tree are :
      2
              3
MENU
1. Insert Element
2. Preorder Traversal
3. Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 3
The elements of the tree are :
      2
              3
MENU
1. Insert Element
2. Preorder Traversal
Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 4
The elements of the tree are :
             1
MENU
1. Insert Element
2. Preorder Traversal
3. Inorder Traversal
4. Postorder Traversal
5. Exit
Enter your option : 5
EXIT.
```

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CLASS/DIV:SY-IT-A

ROLL NO:18