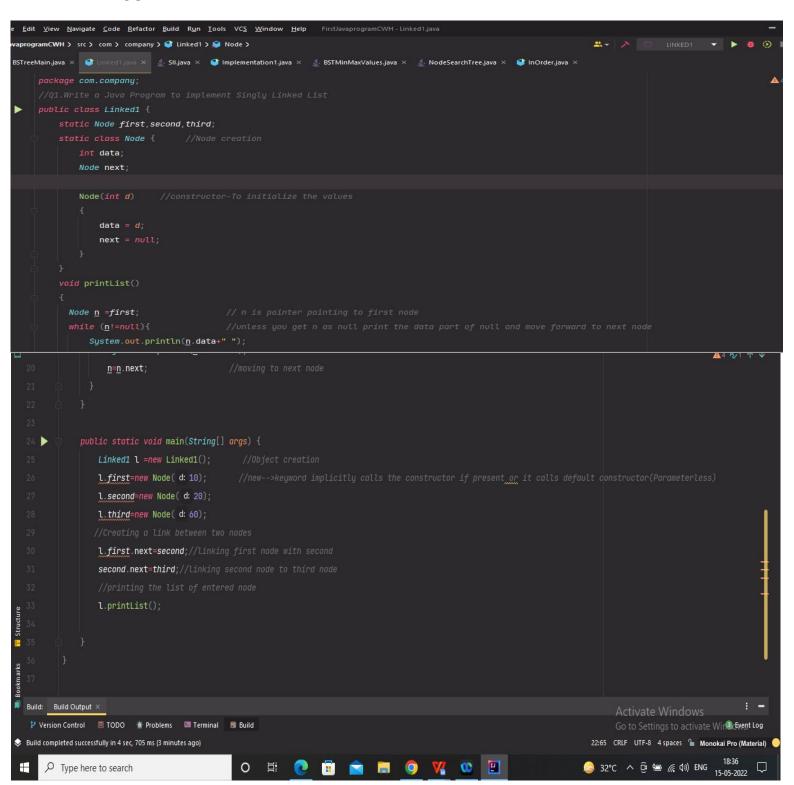
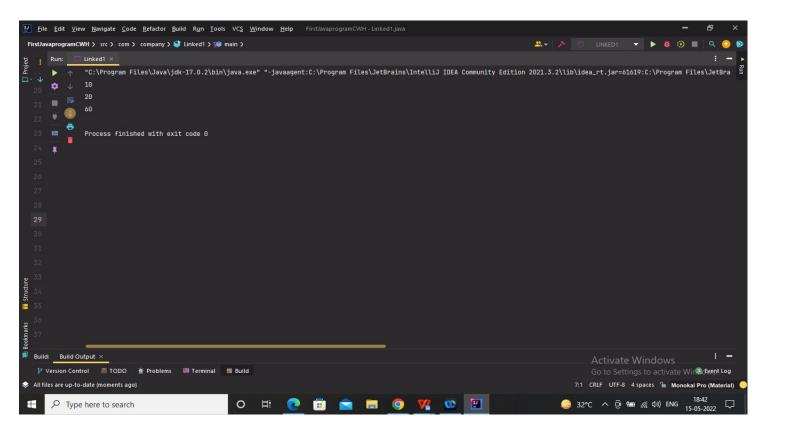
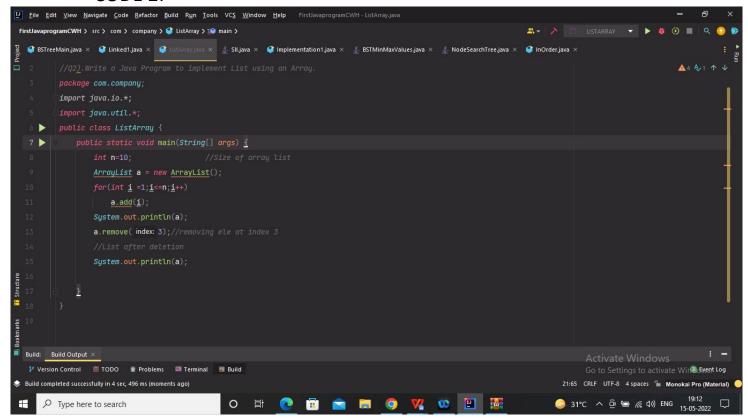
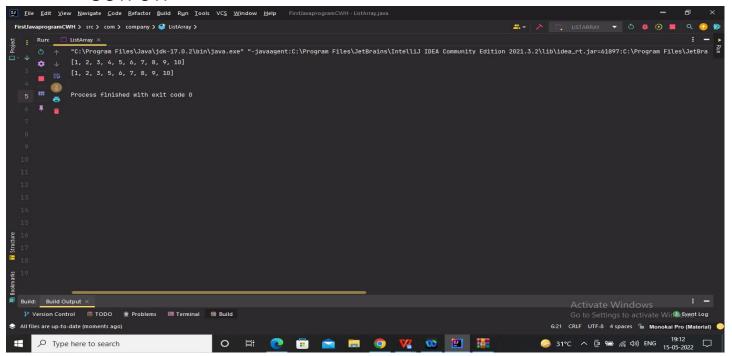
CODE 1





CODE 2:





CODE 3

```
sprogramCWH > src > com > company > 🗳 StackMain.java > 🗳 StackMain > 😭 main >
                                                                                                                 A → > □ STACKMAIN → O # O ■ Q O
 😝 BSTreeMain,java 🗴 🗳 Linked1,java x 🗳 ListArray,java x 🥩 StackMain,java x 🎍 Slijava x 👙 Implementation1,java x 🍨 BSTMinMaxValues,java x 🍨 NodeSearchTree,java x 🔮 InOrder,java x
         //Q3)Write a Java Program to implement Stack operations such as push, pop and Display using Array.
                                                                                                                                                    A6 A2 ↑ ↓
                                                                                                                                           Previous Highlighted Error Sh
            private int top;
                top++;
                    throw new RuntimeException("Stack is Empty.");
                top--:
                return top == arr.length-1;
                 Scanner sc = new Scanner(System.in);
                 Stack s = new Stack( stackSize: 6);
                 int choice, val;
                 do 🗓
                     switch(choice) {
```

```
S.pop();

System.out.println("Popped: " + val);
} catch (Exception e) {

System.out.println(e.getHessage());
}

break;

yal = s.peek();

System.out.println("Peek: " + val);
} catch (Exception e) {

System.out.println("Peek: " + val);
} catch (Exception e) {

System.out.println(e.getHessage());
}

break;

product

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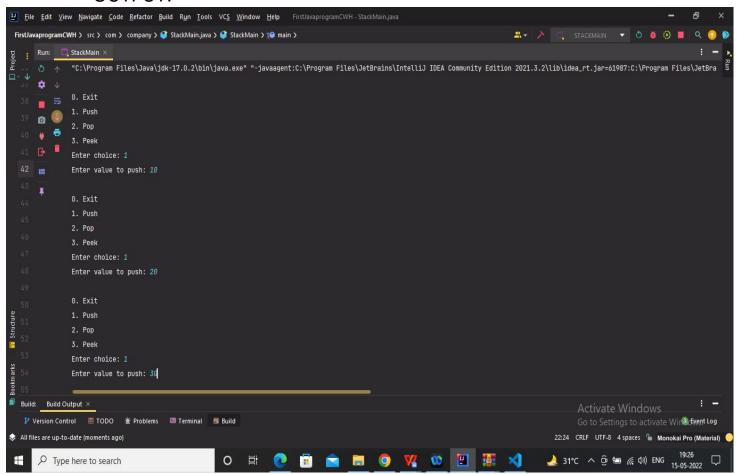
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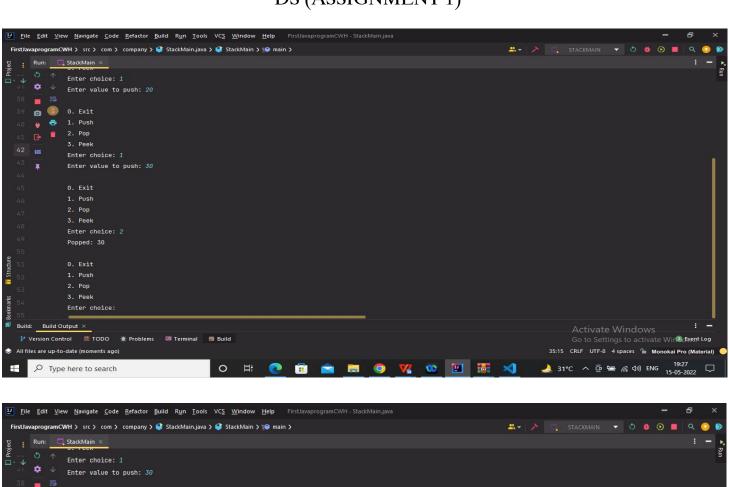
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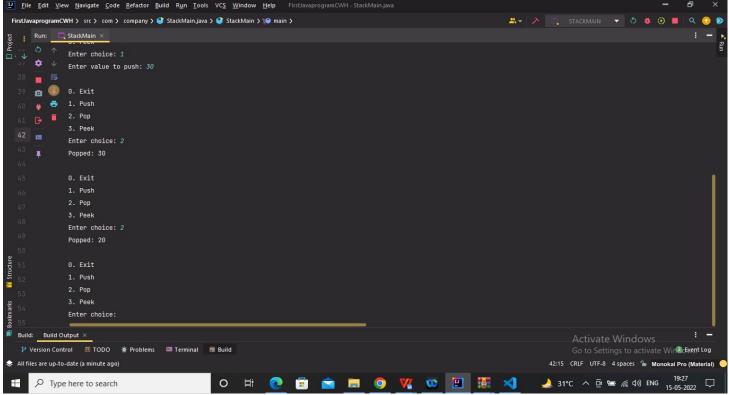
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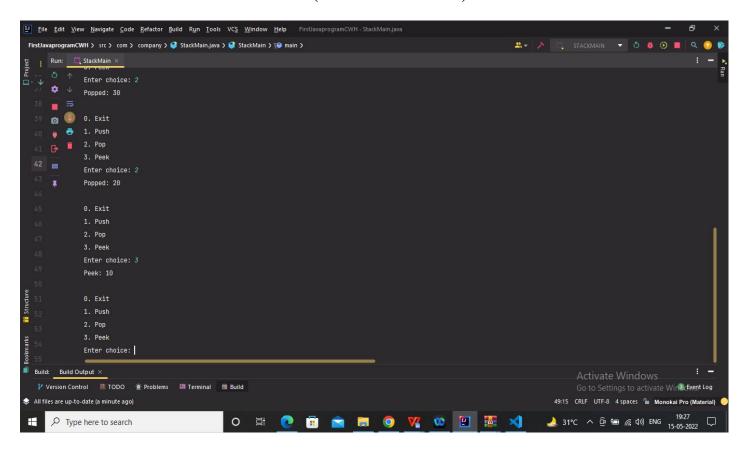
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```









CODE 4:

```
{
    QueueNode temp = new QueueNode(data);//Create a new ll node

//if node is empty, then the new node is front and rear both

if(this.rear==null){
    this.front=this.rear=temp;
    return;
}

//Add new node at the end of queue and cHANGE REAR
    this.rear.next=temp;
this.rear=temp;

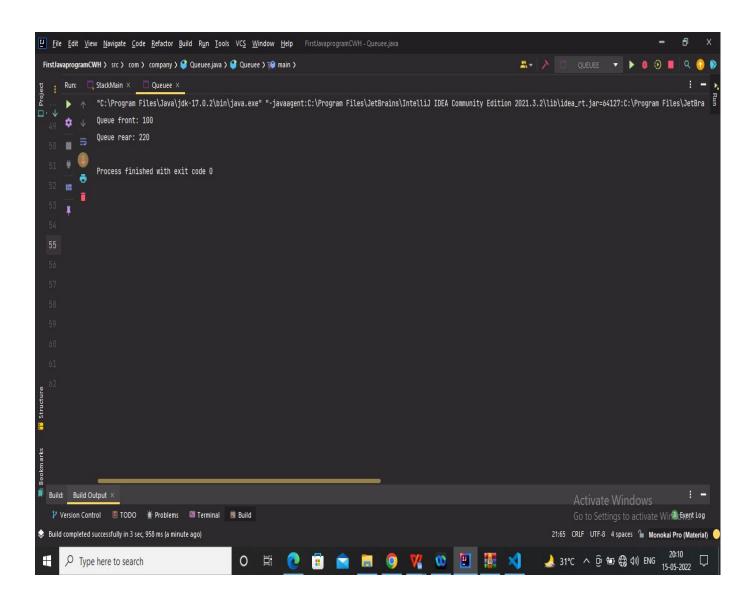
this.rear=temp;

}

//Bequeue

void dequeue(){
    if(this.front==null)
        return;
    //Storing previous front and move front one node ahead
        QueueNode temp = this.front;
    this.front = this.front.next;
```

```
this.front = this.front.next;
           if(this.front==null)
               this rear=null;
  public class Queuee {
      public static void main(String[] args) {
           Que q = new Que();
           q.enqueue( data: 20);//20
           q.enqueue( data: 60);//20 60
           q.dequeue();
           q.enqueue( data: 100);//60 100
           q.enqueue( data: 120);// 60 100 120
           q.dequeue();
           q.enqueue( data: 220);//100 120 220
       System.out.println("Queue front: "+q.front.data);//100
       System.out.println("Queue rear: "+q.rear.data);//220
Build Output ×
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                                                                                               Go to Settings to activate Win Legent Log
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```



```
package com.company;
//q5)Write a Java Program to implement Binary Search Trees with linked representation.
class BinarySearchTree {
       private int data;
       private Node left, right;
           data = 0;
            left = null;
            right = null;
            data = val;
            left = null;
            right = null;
   private Node root;
   public BinarySearchTree() {
       root = null;
   public void add(int val) { //50
       Node newNode = new Node(val);
       if(root == null)
           root = newNode;
           Node trav = root;
               if(val < trav.data) {</pre>
                   if(tray.left != null)
                       trav = trav.left; //modification_part
```

CODE 5:

```
System.out.print(trav.data + ", ");
       preorder(trav.left);
       preorder(trav.right);
   public void preorder() {
       System.out.print("PRE : ");
       preorder(root);
       System.out.println();
   public void inorder(Node trav) {
       inorder(trav.left);
       System.out.print(trav.data + ", ");
       inorder(trav.right);
   public void inorder() {
        inorder(root);
       System.out.println();
   public void postorder(Node tray) {
       postorder(trav.left);
        postorder(trav.right);
       System.out.print(trav.data + ", ");
   public void postorder() {
        System.out.print("POST: ");
        postorder(root);
       System.out.println();
public class BSTreeMain {
```

```
public static void main(String[] args) {
    BinarySearchTree t = new BinarySearchTree();
    t.add(50);
    t.add(10);
    t.add(10);
    t.add(100);
    t.add(40);
    t.add(40);
    t.add(70);
    t.add(80);
    t.add(60);
    t.add(20);
    t.preorder();
    t.inorder();
    t.postorder();
}
```

