DAILY ONLINE ACTIVITIES SUMMARY

Date:	**3-06-2020**	**Name:**	**ASHIKA**
Sem & Sec	**6 A**	**USN:**	**4AL17CS016**

Online Test Summary

Subject	**PAP**		
Max. Marks	**20**	**Score**	**9**

Certification Course Summary

Course	**Machine learning with python**		
Certificate Provider	**Cognitive class**	**Duration**	**12 hour**

Coding Challenges

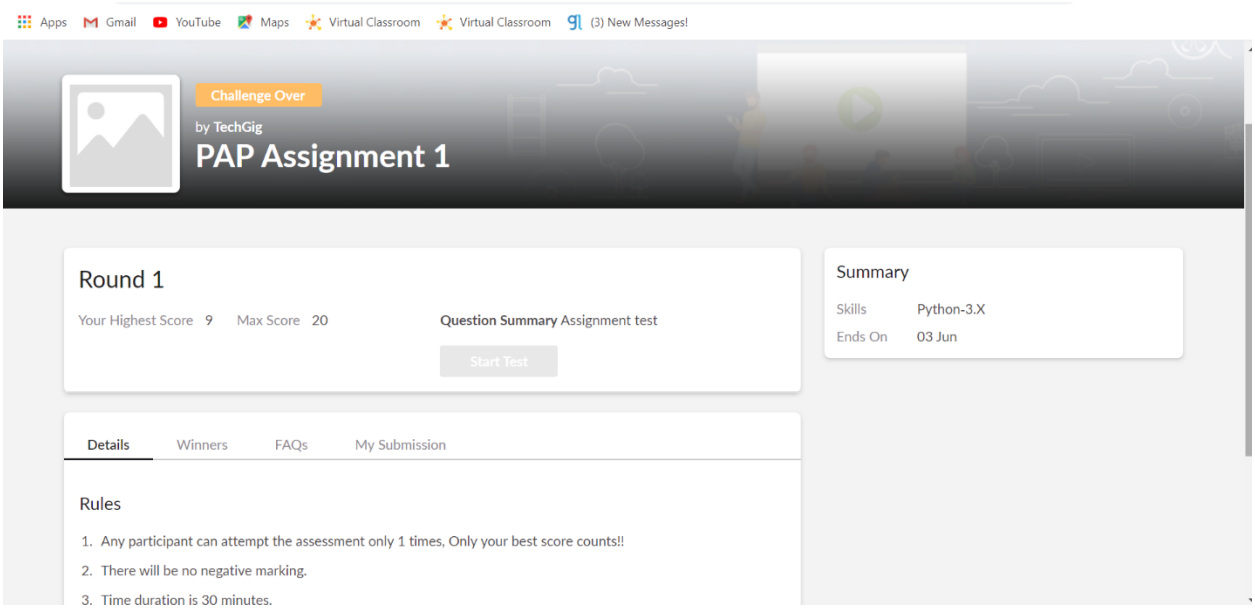
Problem Statement:

1. Python Program -Problem statement:
   Take a list of length 3 containing integers, find out which is larger, first or last one and set all the elements in the list to be that value.
2. Write a python program to generate prime number in an interval
3. Write a Java Program to Implement Circular Doubly Linked List

Status: done(executed)

Uploaded the report in Github	**yes**
If yes Repository name	https://github.com/ASHIKA-05/DAILY-REPORT
Uploaded the report in slack	**yes**

Subject: PAP



CERTIFICATION COURSE

ONLINE CODEING

1. Python Program

Problem statement:
Take a list of length 3 containing integers, find out which is larger, first or last one and set all the elements in the list to be that value. Print the updated list
eg:
1)Input - Given list: [1, 2, 3]
Output- [3,3,3]
2)Input - Given list: [2, 11, 3]
Output- [3,3,3]

```
lst=[]

n = int(input("Enter number of elements : "))

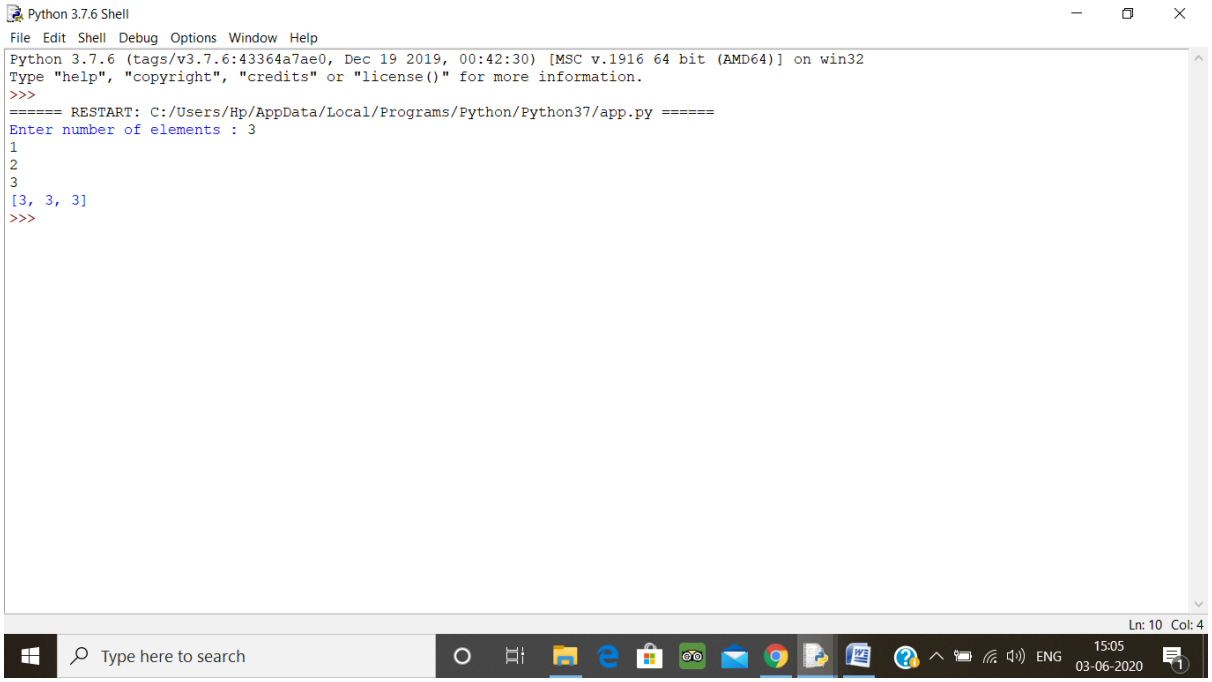
for i in range(0, n):

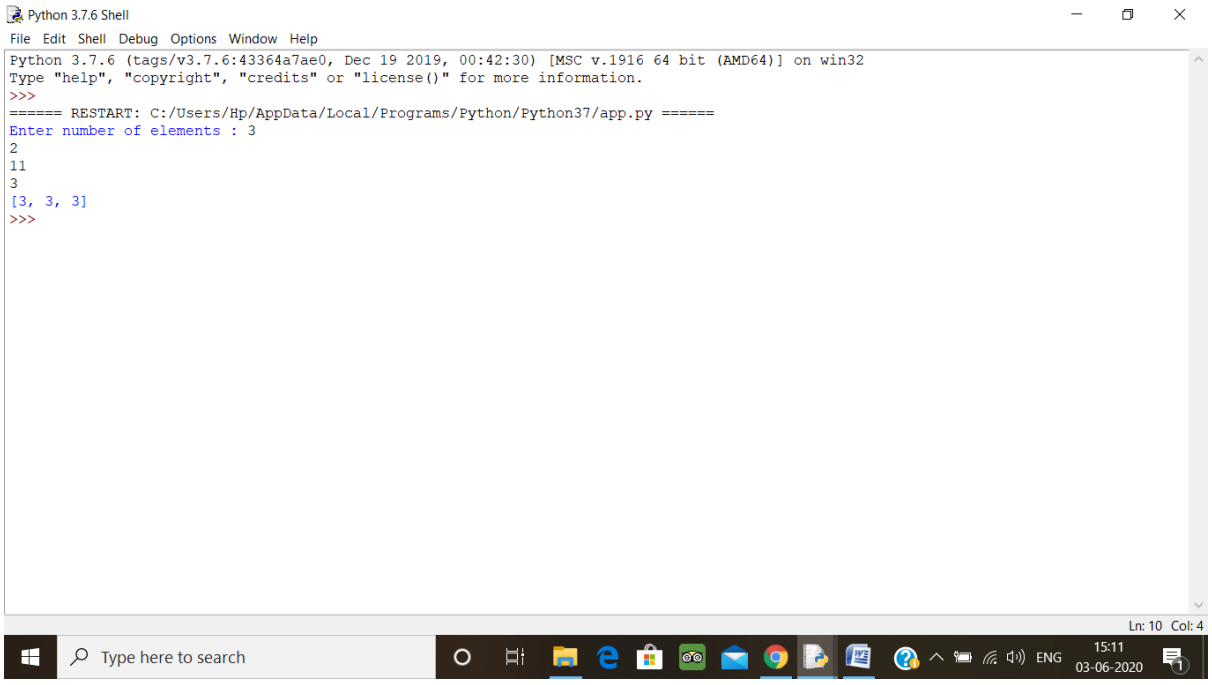
    ele = int(input())


    lst.append(3)


print(lst)
```

output:





1. Python Program

Problem statement:
Take a list of length 3 containing integers, find out which is larger, first or last one and set all the elements in the list to be that value. Print the updated list
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1)Input - Given list: [1, 2, 3]
Output- [3,3,3]
2)Input - Given list: [2, 11, 3]
Output- [3,3,3]

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lst=[]

n = int(input("Enter number of elements : "))

for i in range(0, n):

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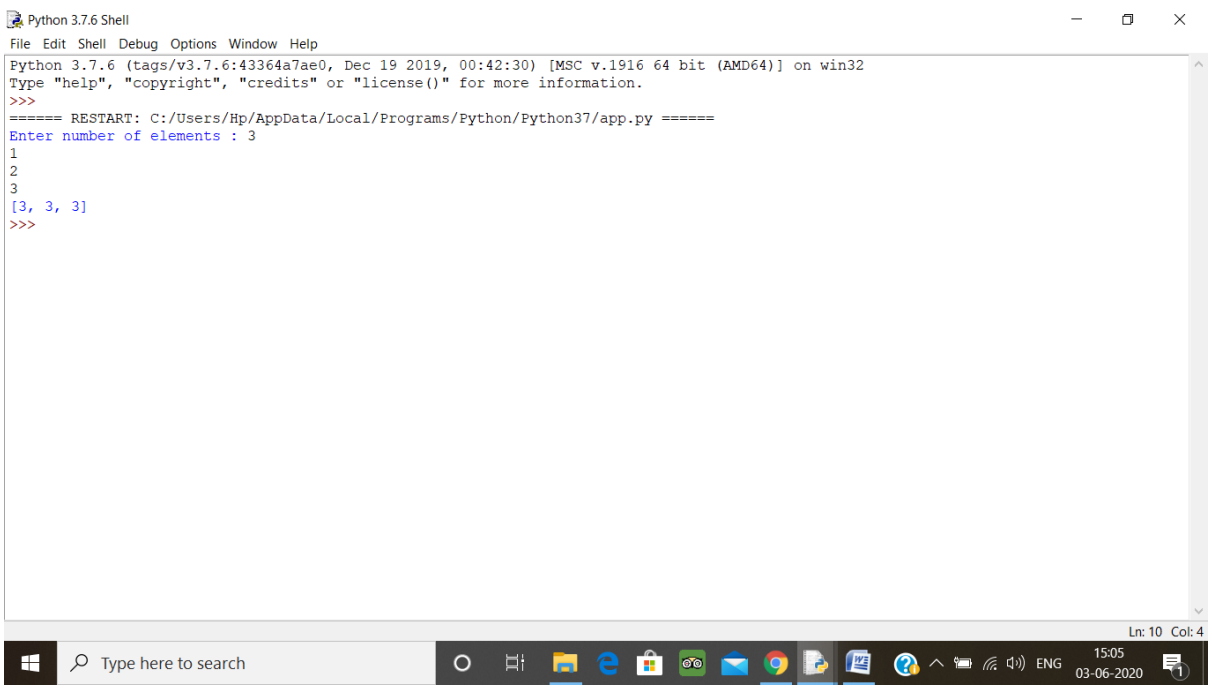
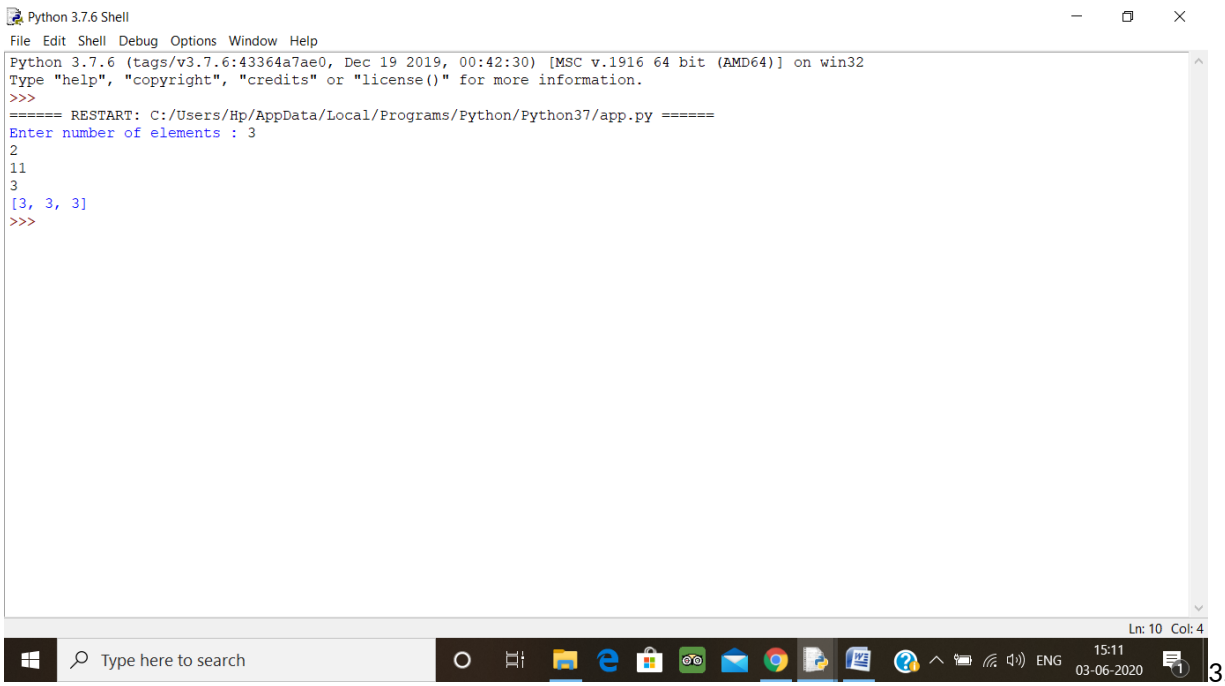
print(lst)
```

output:





3. Write a Java Program to Implement Circular Doubly Linked List

```
/******************************************************************************

                Online Java Compiler.
        Code, Compile, Run and Debug java program online.
Write your code in this editor and press "Run" button to execute it.

*******************************************************************************/


import java.util.Scanner;


/*  Class Node  */

class Node

{
```

```
 protected int data;
 protected Node next, prev;

/* Constructor */
 public Node()
 {
    next = null;
    prev = null;
    data = 0;
 }
/* Constructor */
 public Node(int d, Node n, Node p)
 {
    data = d;
    next = n;
    prev = p;
 }
/* Function to set link to next node */
 public void setLinkNext(Node n)
 {
    next = n;
 }
/* Function to set link to previous node */
 public void setLinkPrev(Node p)
 {
```

```
        prev = p;
    }
   /* Funtion to get link to next node */
    public Node getLinkNext()
    {
        return next;
    }
   /* Function to get link to previous node */
    public Node getLinkPrev()
    {
        return prev;
    }
   /* Function to set data to node */
    public void setData(int d)
    {
        data = d;
    }
   /* Function to get data from node */
    public int getData()
    {
        return data;
    }
}


/* Class linkedList */
```

```
class linkedList
{
    protected Node start;
    protected Node end ;
    public int size;

   /* Constructor */
    public linkedList()
    {
        start = null;
        end = null;
        size = 0;
    }
   /* Function to check if list is empty */
    public boolean isEmpty()
    {
        return start == null;
    }
   /* Function to get size of list */
    public int getSize()
    {
        return size;
    }
   /* Function to insert element at begining */
    public void insertAtStart(int val)
```

```
{
    Node nptr = new Node(val, null, null);
    if (start == null)
       {
          nptr.setLinkNext(nptr);
          nptr.setLinkPrev(nptr);
          start = nptr;
          end = start;
       }
    else
       {
          nptr.setLinkPrev(end);
          end.setLinkNext(nptr);
          start.setLinkPrev(nptr);
          nptr.setLinkNext(start);
          start = nptr;
       }
    size++ ;
}
/*Function to insert element at end */
 public void insertAtEnd(int val)
{
    Node nptr = new Node(val, null, null);
    if (start == null)
       {
```

```
            nptr.setLinkNext(nptr);
            nptr.setLinkPrev(nptr);
            start = nptr;
            end = start;
        }
    else
        {
            nptr.setLinkPrev(end);
            end.setLinkNext(nptr);
            start.setLinkPrev(nptr);
            nptr.setLinkNext(start);
            end = nptr;
        }
    size++;
}
/* Function to insert element at position */
 public void insertAtPos(int val, int pos)
{
    Node nptr = new Node(val, null, null);
    if (pos == 1)
        {
            insertAtStart(val);
            return;
        }
    Node ptr = start;
```

```
    for (int i = 2; i <= size; i++)
       {
          if (i == pos)
             {
                Node tmp = ptr.getLinkNext();
                ptr.setLinkNext(nptr);
                nptr.setLinkPrev(ptr);
                nptr.setLinkNext(tmp);
                tmp.setLinkPrev(nptr);
             }
          ptr = ptr.getLinkNext();
       }
    size++ ;
 }
/* Function to delete node at position  */
 public void deleteAtPos(int pos)
 {
    if (pos == 1)
       {
          if (size == 1)
             {
                start = null;
                end = null;
                size = 0;
                return;
```

```
            }
        start = start.getLinkNext();
        start.setLinkPrev(end);
        end.setLinkNext(start);
        size--;
        return ;
    }
if (pos == size)
    {
        end = end.getLinkPrev();
        end.setLinkNext(start);
        start.setLinkPrev(end);
        size-- ;
    }
Node ptr = start.getLinkNext();
for (int i = 2; i <= size; i++)
    {
        if (i == pos)
            {
                Node p = ptr.getLinkPrev();
                Node n = ptr.getLinkNext();
                p.setLinkNext(n);
                n.setLinkPrev(p);
                size-- ;
                return;
```

```
            }
            ptr = ptr.getLinkNext();
        }
    }
/* Function to display status of list */
    public void display()
    {
        System.out.print("\nCircular Doubly Linked List = ");
        Node ptr = start;
        if (size == 0)
        {
            System.out.print("empty\n");
            return;
        }
        if (start.getLinkNext() == start)
        {
            System.out.print(start.getData()+ " <-> "+ptr.getData()+ "\n");
            return;
        }
        System.out.print(start.getData()+ " <-> ");
        ptr = start.getLinkNext();
        while (ptr.getLinkNext() != start)
        {
            System.out.print(ptr.getData()+ " <-> ");
            ptr = ptr.getLinkNext();
```

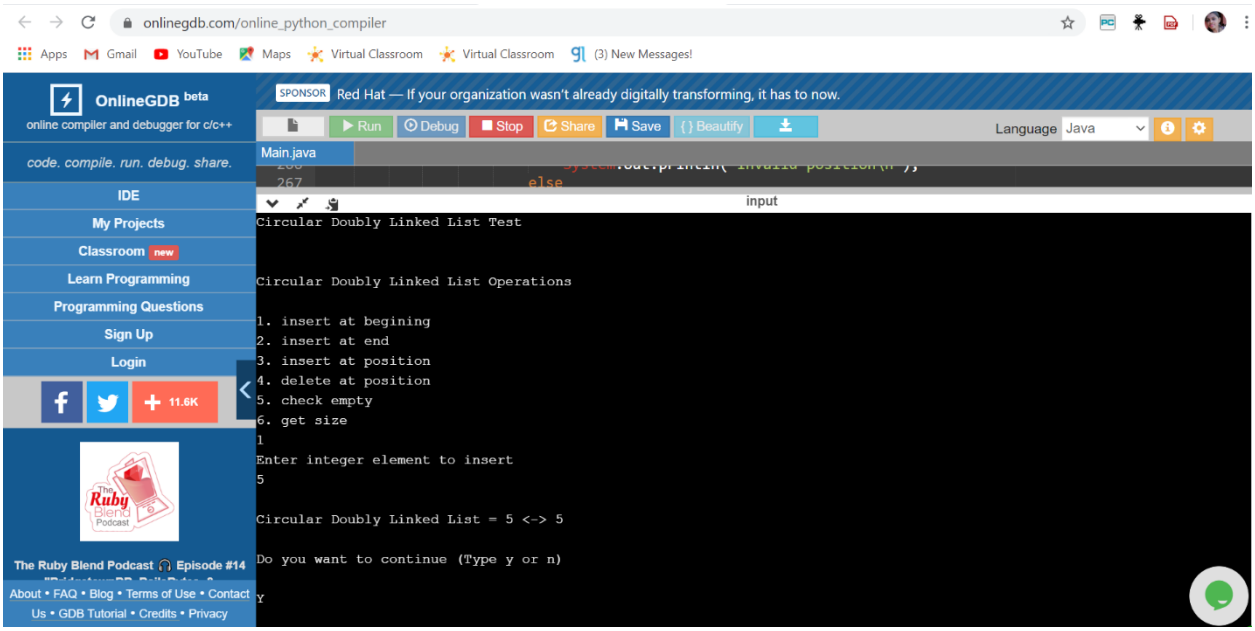
```
        }
        System.out.print(ptr.getData()+ " <-> ");
        ptr = ptr.getLinkNext();
        System.out.print(ptr.getData()+ "\n");
    }
}

/* Class CircularDoublyLinkedList */
public class Main
{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);
       /* Creating object of linkedList */
        linkedList list = new linkedList();
        System.out.println("Circular Doubly Linked List Test\n");
        char ch;
       /*  Perform list operations  */
        do
          {
              System.out.println("\nCircular Doubly Linked List Operations\n");
              System.out.println("1. insert at begining");
              System.out.println("2. insert at end");
              System.out.println("3. insert at position");
              System.out.println("4. delete at position");
```

```
System.out.println("5. check empty");
System.out.println("6. get size");
int choice = scan.nextInt();
switch (choice)
   {
   case 1 :
      System.out.println("Enter integer element to insert");
      list.insertAtStart( scan.nextInt() );
      break;
   case 2 :
      System.out.println("Enter integer element to insert");
      list.insertAtEnd( scan.nextInt() );
      break;
   case 3 :
      System.out.println("Enter integer element to insert");
      int num = scan.nextInt() ;
      System.out.println("Enter position");
      int pos = scan.nextInt() ;
      if (pos < 1 || pos > list.getSize() )
         System.out.println("Invalid position\n");
      else
         list.insertAtPos(num, pos);
      break;
   case 4 :
      System.out.println("Enter position");
```

```
                int p = scan.nextInt() ;
                if (p < 1 || p > list.getSize() )
                   System.out.println("Invalid position\n");
                else
                   list.deleteAtPos(p);
                break;
             case 5 :
                System.out.println("Empty status = "+ list.isEmpty());
                break;
             case 6 :
                System.out.println("Size = "+ list.getSize() +"\n");
                break;
             default :
                System.out.println("Wrong Entry\n ");
                break;
             }
          /*  Display List  */
           list.display();
           System.out.println("\nDo you want to continue (Type y or n)\n");
           ch = scan.next().charAt(0);
        }
     while (ch == 'Y'|| ch == 'y');
  }
}
```

Output: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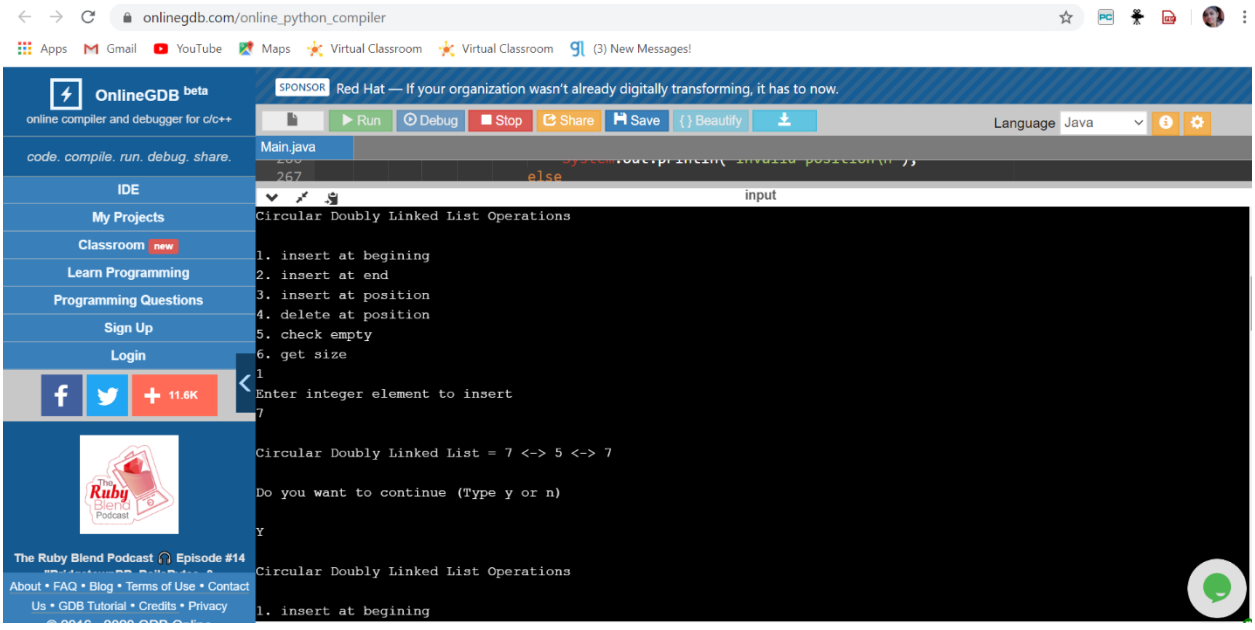
Language Java
Main.java
267 else
input
Circular Doubly Linked List Test
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
1
Enter integer element to insert
5
Circular Doubly Linked List = 5 <-> 5
Do you want to continue (Type y or n)
Y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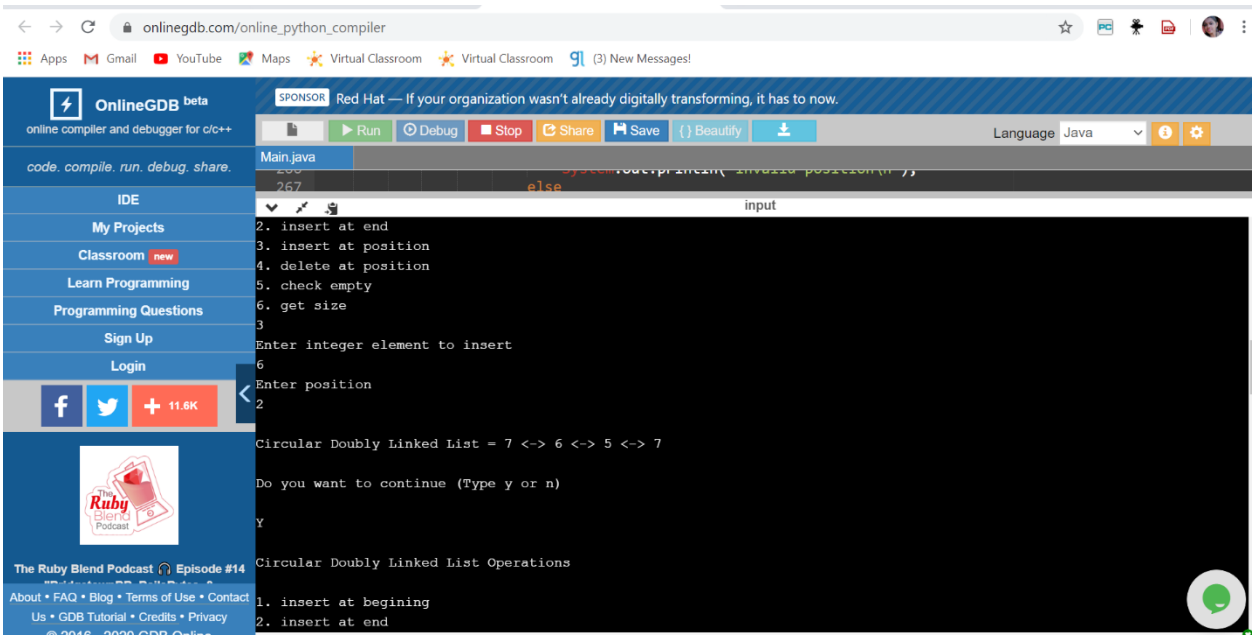
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
1
Enter integer element to insert
7
Circular Doubly Linked List = 7 <-> 5 <-> 7
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining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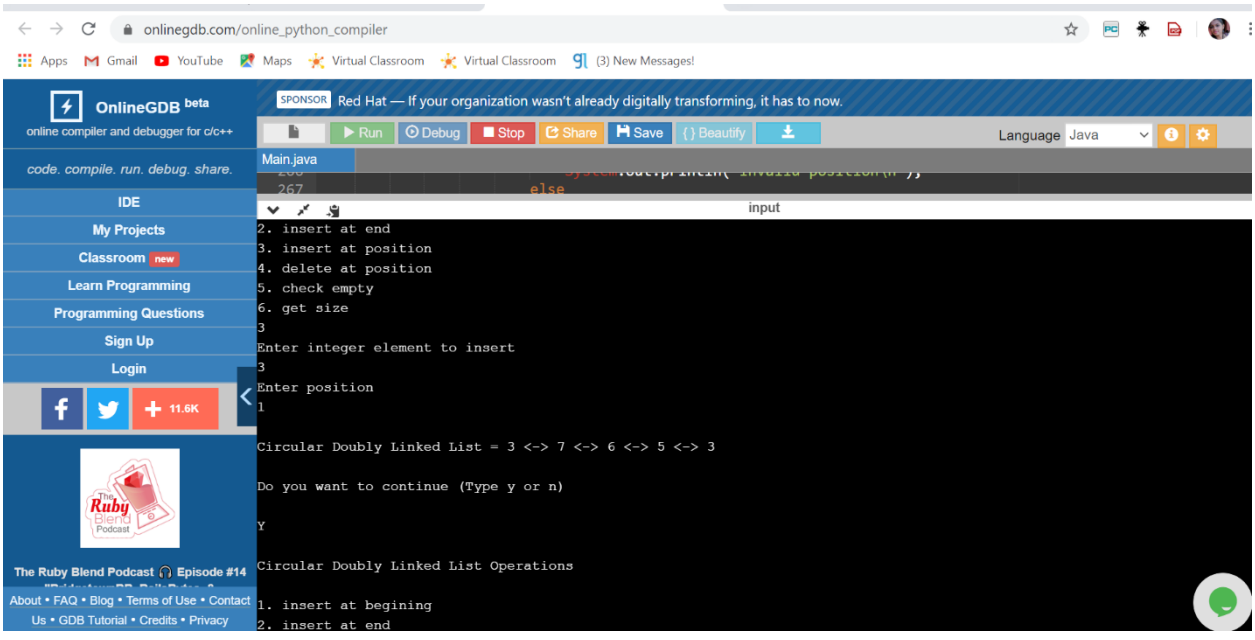
Main.java
267 else
input
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
3
Enter integer element to insert
6
Enter position
2
Circular Doubly Linked List = 7 <-> 6 <-> 5 <-> 7
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end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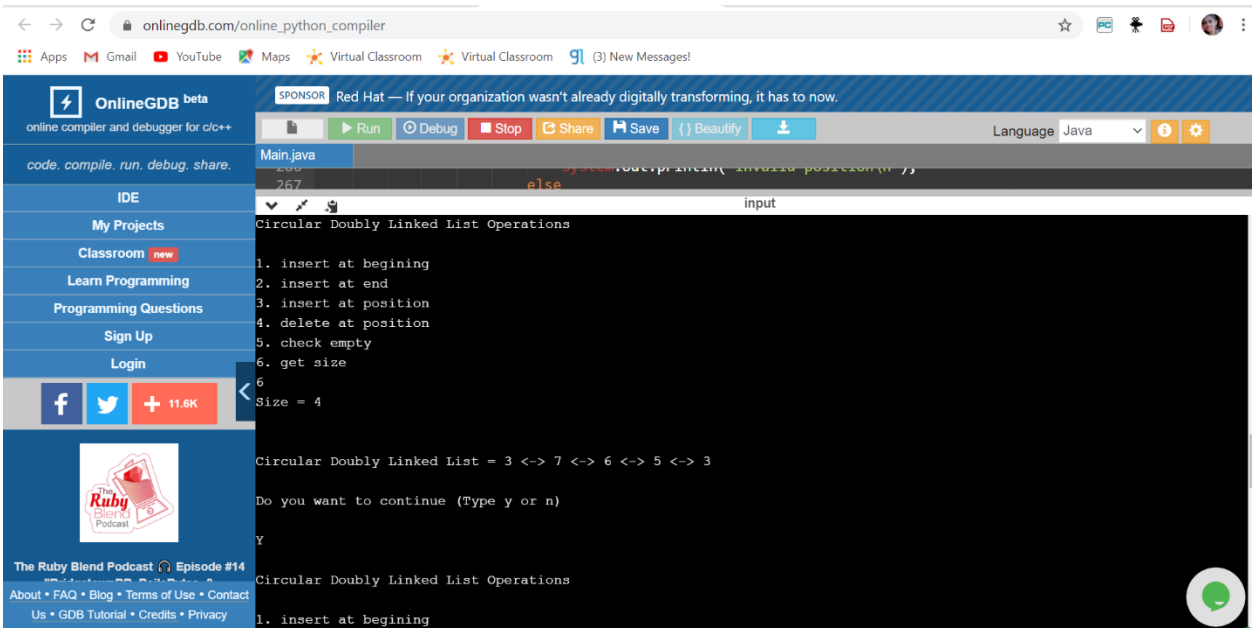
Language Java
Main.java
267 else
input
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
3
Enter integer element to insert
3
Enter position
1
Circular Doubly Linked List = 3 <-> 7 <-> 6 <-> 5 <-> 3
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end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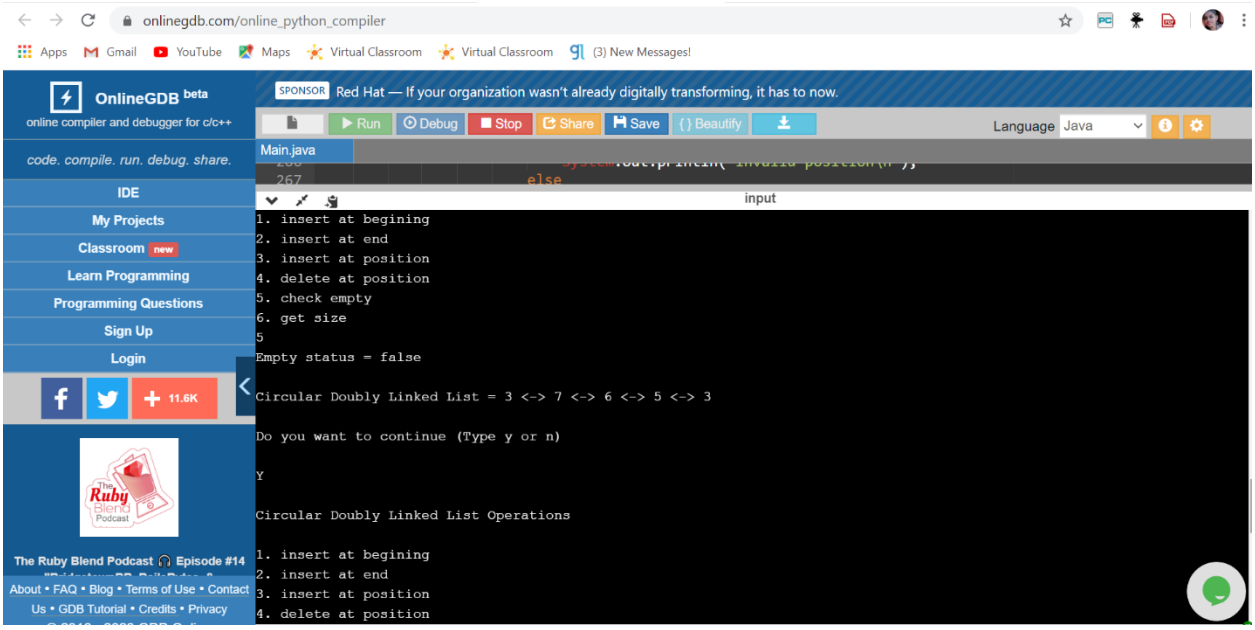
Main.java
267 else
input
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
6
Size = 4
Circular Doubly Linked List = 3 <-> 7 <-> 6 <-> 5 <-> 3
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining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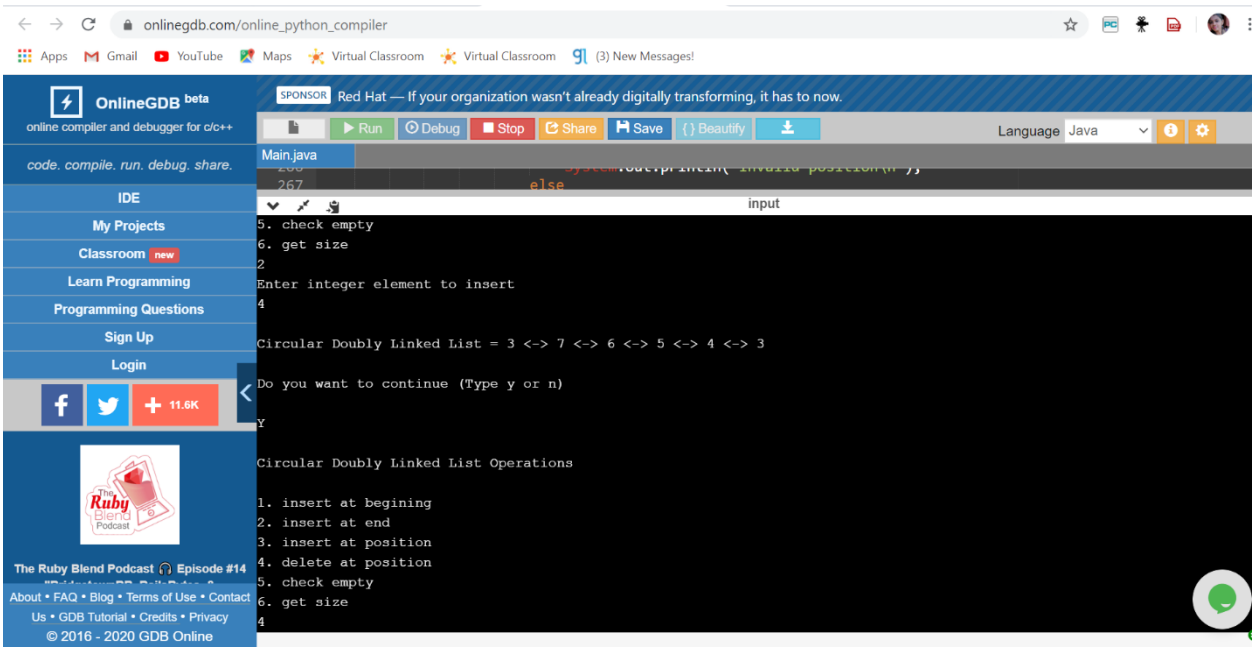
Language Java
Main.java
267 else
input
1. insert at begining
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
5
Empty status = false
Circular Doubly Linked List = 3 <-> 7 <-> 6 <-> 5 <-> 3
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end
3. insert at position
4. delete at position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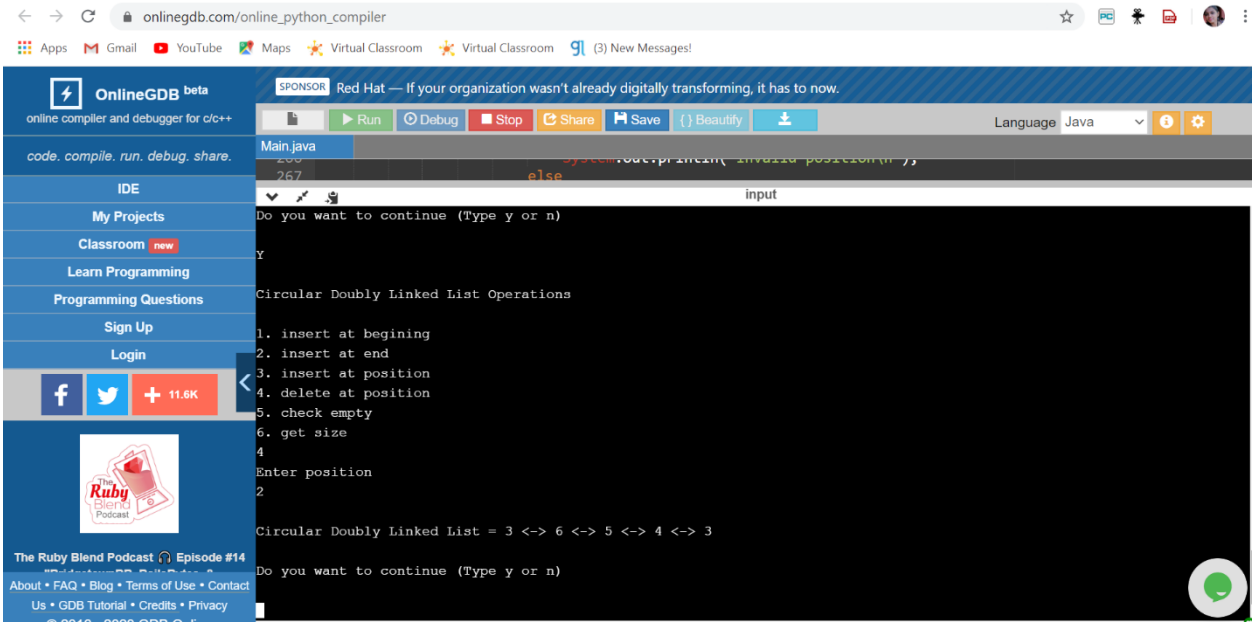
Main.java
267 else
input
5. check empty
6. get size
2
Enter integer element to insert
4
Circular Doubly Linked List = 3 <-> 7 <-> 6 <-> 5 <-> 4 <-> 3
Do you want to continue (Type y or n)
Y
Circular Doubly Linked List Operations
1. insert at begining
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
4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Do you want to continue (Type y or n)
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Circular Doubly Linked List Operations
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2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
4
Enter position
2
Circular Doubly Linked List = 3 <-> 6 <-> 5 <-> 4 <-> 3
Do you want to continue (Type y or n)