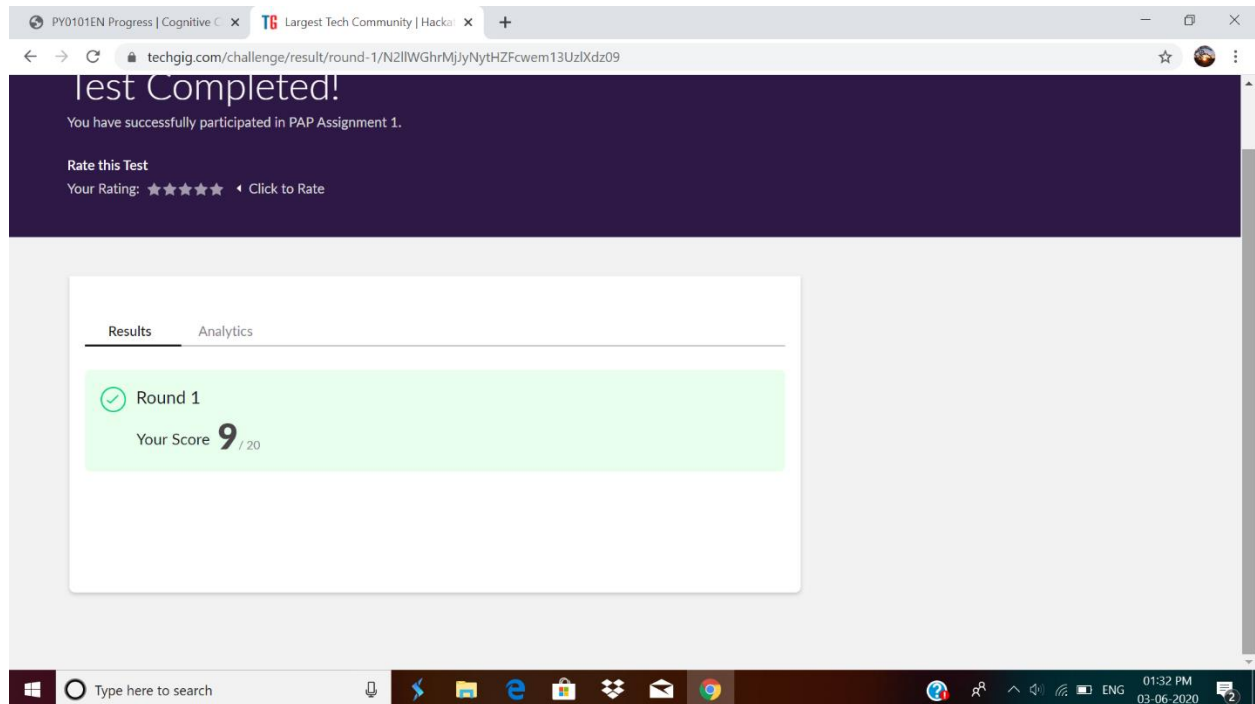


DAILY ONLINE ACTIVITIES SUMMARY

Date:	03-06-2020	Name:	Anvitha Poojary
Sem & Sec	6A	USN:	4AL17CS008
Online Test Summary			
Subject	PAP assignment test		
Max. Marks	20	Score	9
Certification Course Summary			
Course	Python for data science		
Certificate Provider	COGNITIVE CLASS .ai	Duration	5hr
Coding Challenges			
Problem Statement: 1.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 2.Write a python program to generate prime number in an interval 3. Write a Java Program to Implement Circular Doubly Linked List			
Status: completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/anvithapo99/Daily-Report	
Uploaded the report in slack		Yes	

Online test details:

Subject: PAP



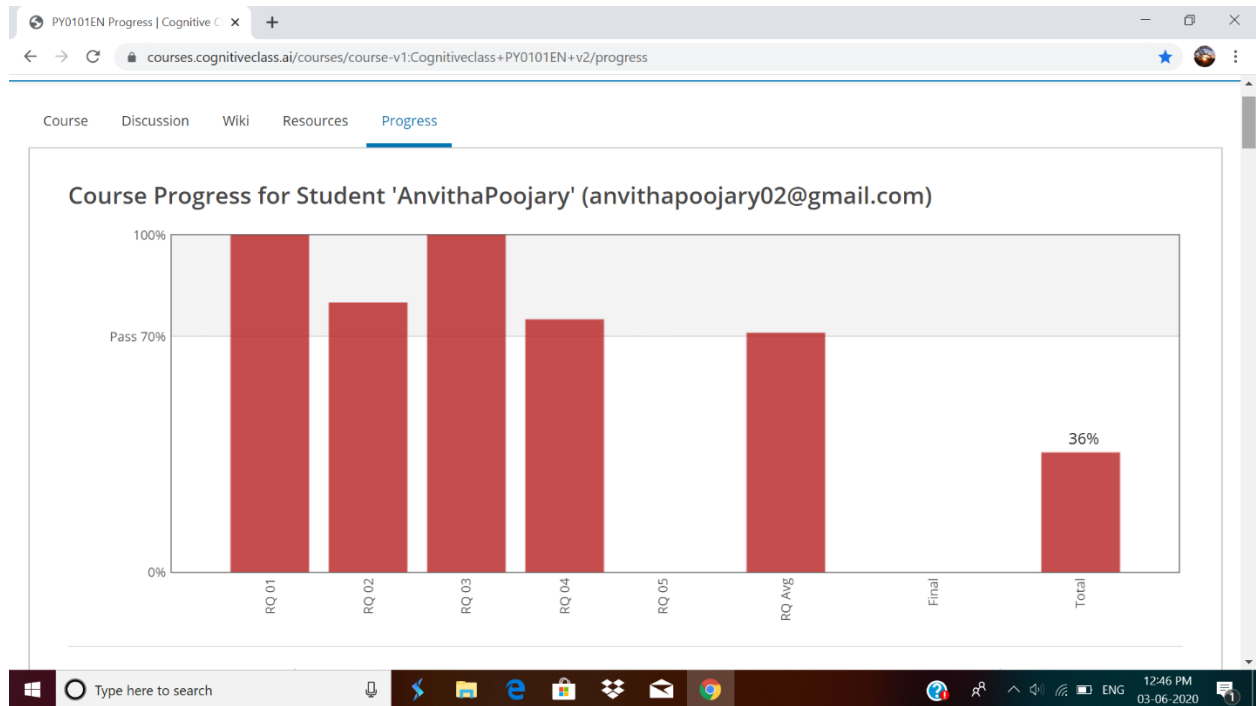
Certification course details:

Python for data science

Today I have studied following topics:

- Reading data from file
- Writing data to file
- Appending data to file
- Some example program
- Data frames
- Some methods of dataframe

➤ And its example program



Coding Challenges Details:

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=[]
```

```
for num in range(lower,upper + 1):
```

```

if num > 1:

    for i in range(2,num):

        if (num % i) == 0:

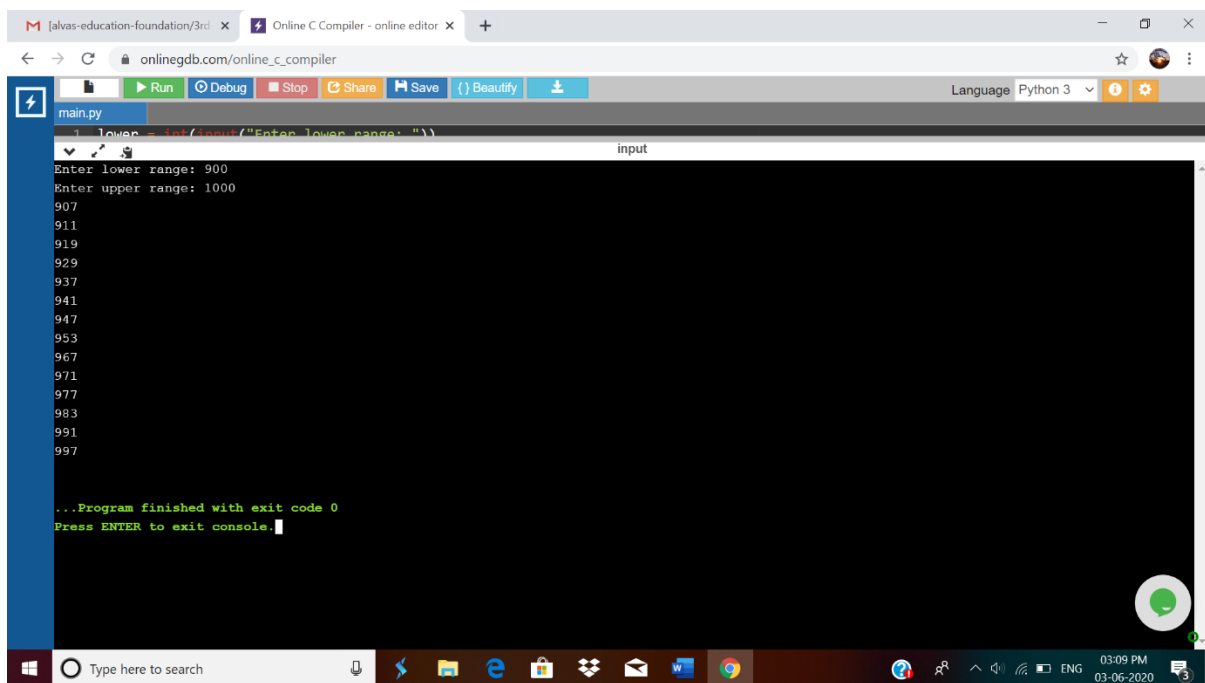
            break

    else:

        print(num)

```

output:



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The interface includes a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The code editor shows a Python script in `main.py` that prompts the user to enter a lower range (900) and an upper range (1000). The output window displays a list of prime numbers between 900 and 1000: 907, 911, 919, 929, 937, 941, 947, 953, 967, 971, 977, 983, 991, and 997. The program finished with exit code 0, and the user is prompted to press ENTER to exit the console. The Windows taskbar at the bottom shows the time as 03:09 PM on 03-06-2020.

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

package prog12;

```

import java.util.Scanner;
class Node
{
    protected int data;
    protected Node next, prev;

    public Node()
    {
        next = null;
        prev = null;
    }
}

```

```

        data = 0;
    }
    public Node(int d, Node n, Node p)
    {
        data = d;
        next = n;
        prev = p;
    }

    public void setLinkNext(Node n)
    {
        next = n;
    }

    public void setLinkPrev(Node p)
    {
        prev = p;
    }

    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;
    public linkedList()
    {
        start = null;
        end = null;
        size = 0;
    }
    public boolean isEmpty()
    {
        return start == null;
    }
}

```

```

}

public int getSize()
{
    return size;
}

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++;
}

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");
    }
}
package prog12;

import java.util.Scanner;

public class CircularDoublyLinkedList
{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);
        linkedList list = new linkedList();
        System.out.println("Circular Doubly Linked List Test\n");
        char ch;
        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;
    }
    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:

```
eclipse-workspace - prog12/src/prog12/CircularDoublyLinkedList.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

CircularDoublyLinkedList [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (03-Jun-2020, 3:23:31 pm)
Circular Doubly Linked List Operations

1. insert at beginning
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
Size = 3

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45

Do you want to continue (Type y or n)
y

Circular Doubly Linked List Operations

1. insert at beginning
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
Enter integer element to insert
2
Enter position
4
Invalid position

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45
```

```
eclipse-workspace - prog12/src/prog12/CircularDoublyLinkedList.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

CircularDoublyLinkedList [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (03-Jun-2020, 3:23:31 pm)

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45

Do you want to continue (Type y or n)
y

Circular Doubly Linked List Operations

1. insert at beginning
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
Enter integer element to insert
78

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45

Do you want to continue (Type y or n)
y

Circular Doubly Linked List Operations

1. insert at beginning
2. insert at end
3. insert at position
4. delete at position
5. check empty
6. get size
Empty status = false
```

```
eclipse-workspace - prog12/src/prog12/CircularDoublyLinkedList.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

CircularDoublyLinkedList [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (03-Jun-2020, 3:23:31 pm)
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
23

Circular Doubly Linked List = 23 <-> 23

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
1
Enter integer element to insert
45

Circular Doubly Linked List = 45 <-> 23 <-> 45
```

```
eclipse-workspace - prog12/src/prog12/CircularDoublyLinkedList.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

<terminated> CircularDoublyLinkedList [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (03-Jun-2020, 3:23:31 pm)
5. check empty
6. get size
3
Enter integer element to insert
2
Enter position
4
Invalid position

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45

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
6
Size = 3

Circular Doubly Linked List = 45 <-> 23 <-> 78 <-> 45

Do you want to continue (Type y or n)
n
```