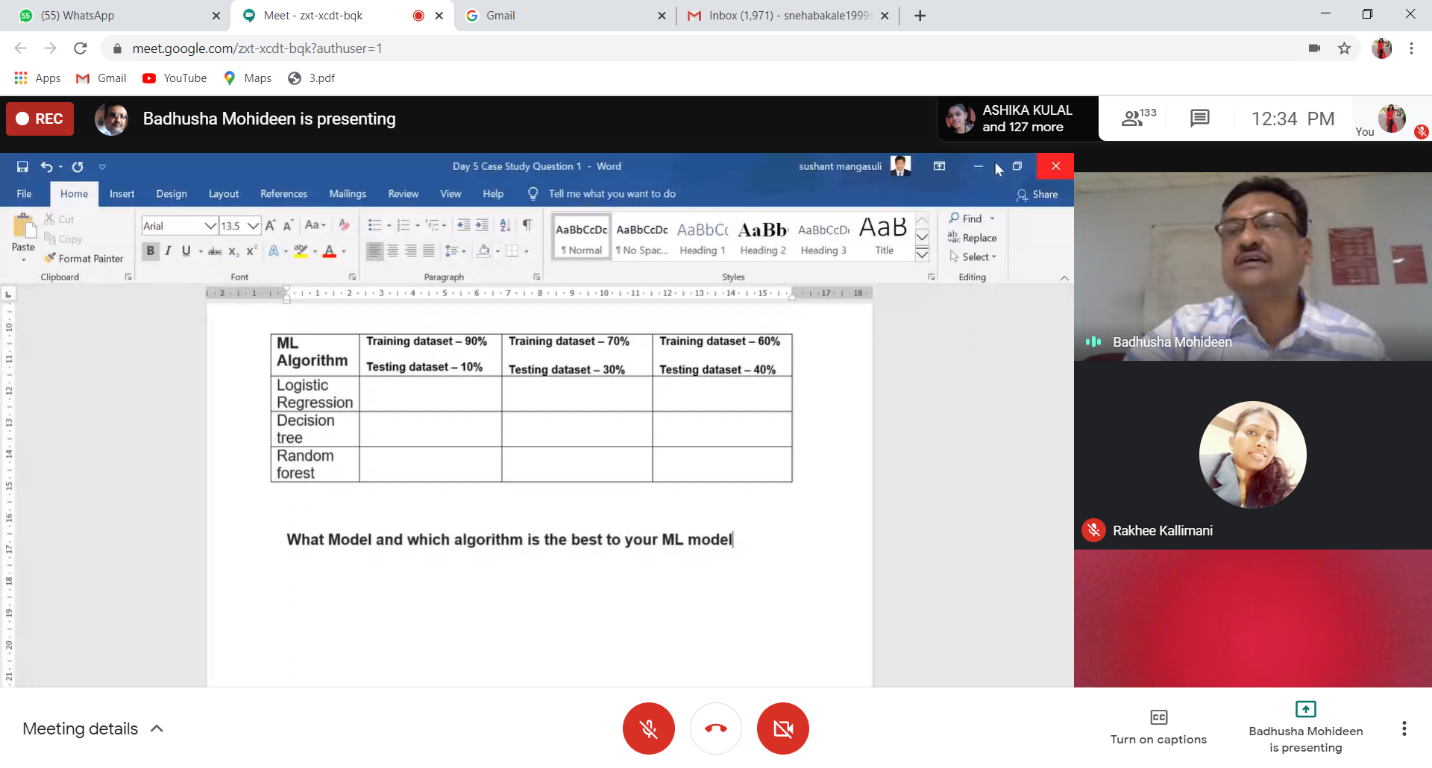
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **19-06-2020** | | | | | **Name:** | **Sneha K Bakale** | |
| **Sem & Sec** | **6th B** | | | | | **USN:** | **4al17cs095** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **-** | | | | | | |
| **Max. Marks** | | **-** | | **Score** | | | **-** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Programming in C** Workshop on Applications of Python Programming in Data Analytics and Machine Learning | | | | | | | |
| **Certificate Provider** | | | **Ms. Shilpa,**  **Dr.Badhusha** | | **Duration** | | | **4.0 hours** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement:**  **Python Programming in Data Analytics and Machine Learning exercise.** | | | | | | | | |
| **Status: Completed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **Yes** | | | |
| **If yes Repository name** | | | | | **Report-**[**https://github.com/Sneha35/OnlineCourse-And-Coding.git**](https://github.com/Sneha35/OnlineCourse-And-Coding.git)  **Python Programming-**  <https://github.com/Sneha35/Applications-of-python-programming-in-DA-and-ML.git> | | | |
| **Uploaded the report in slack** | | | | | **Yes** | | | |

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same) 

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

**1. Write a C Program to rotate a Matrix by 90 Degree in Clockwise or Anticlockwise Direction**

#include <stdio.h>

int main()

{

int c,l=1,n;

printf("Enter size of matrix (NxN): ");

scanf("%d",&n);

int arr[n][n];

printf("\nEnter matrix elements:\n");

for(int i=0;i<n;i++)

{

for(int j=0;j<n;j++)

{

scanf("%d",&arr[i][j]);

}

}

printf("\ngiven matrix elements:\n");

for(int i=0;i<n;i++)

{

for(int j=0;j<n;j++)

{

printf("%d ",arr[i][j]);

}

printf("\n");

}

while(l)

{

printf("MENU\n");

printf("1.clockwise\n");

printf("2.Anticlockwise\n");

printf("3.display\n");

printf("4.exit\n");

printf("enter choice\n");

scanf("%d",&c);

{

if(c==1){

for (int i=0;i<n/2;i++)

{

for (int j=i;j<n-i-1;j++)

{

int temp=arr[i][j];

arr[i][j]=arr[n-1-j][i];

arr[n-1-j][i]=arr[n-1-i][n-1-j];

arr[n-1-i][n-1-j]=arr[j][n-1-i];

arr[j][n-1-i]=temp;

}

}

}

else if(c==2){

for(int i=0;i<n/2;i++)

{

for(int j=i;j<n-i-1;j++)

{

int temp=arr[i][j];

arr[i][j]=arr[j][n-i-1];

arr[j][n-i-1]=arr[n-i-1][n-j-1];

arr[n-i-1][n-j-1]=arr[n-j-1][i];

arr[n-j-1][i]=temp;

}

}

}

else if(c==3)

{

printf("\nMatrix after rotating 90 degree:\n");

for(int i=0;i<n;i++)

{

for(int j=0;j<n;j++)

{

printf("%d ",arr[i][j]);

}

printf("\n");

}

}

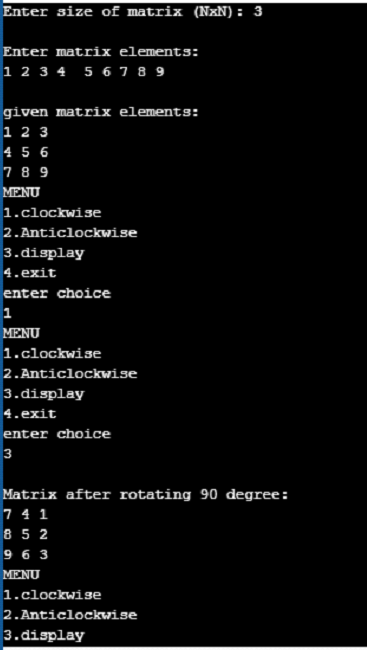
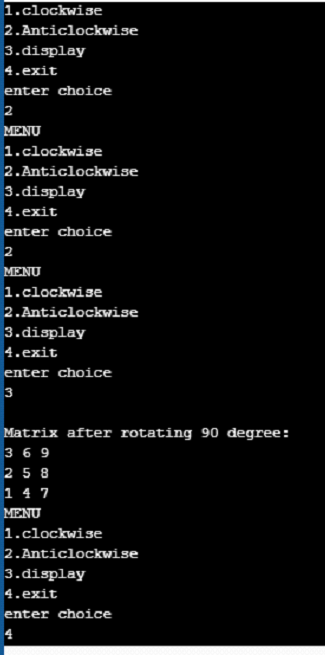
else l=0;

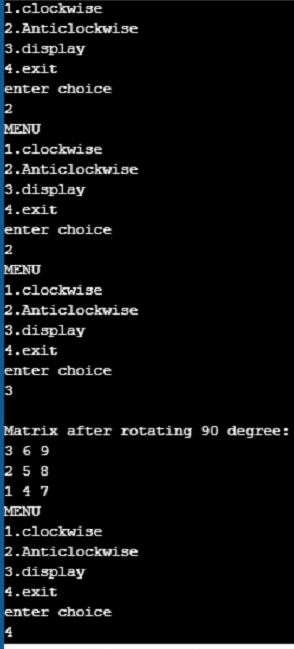
}

}

}

**Output:**



**2. Swapping 2 numbers using pointers**

#include <stdio.h>

void swap(int \*x,int \*y)

{

int t;

t = \*x;

\*x = \*y;

\*y = t;

}

int main()

{

int num1,num2;

printf("Enter value of num1: ");

scanf("%d",&num1);

printf("Enter value of num2: ");

scanf("%d",&num2);

printf("Before Swapping: num1 is: %d, num2 is: %d\n",num1,num2);

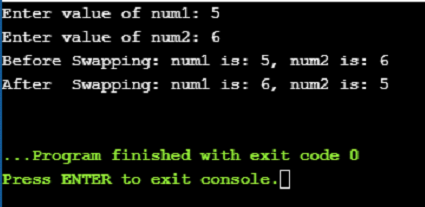
swap(&num1,&num2);

printf("After Swapping: num1 is: %d, num2 is: %d\n",num1,num2);

return 0;

}

**Output:**



**3. Write a Java program to create a doubly linked list of n nodes and display it in reverse order**

public class ReverseList {

//Represent a node of the doubly linked list

class Node{

int data;

Node previous;

Node next;

public Node(int data) {

this.data = data;

}

}

//Represent the head and tail of the doubly linked list

Node head, tail = null;

//addNode() will add a node to the list

public void addNode(int data) {

//Create a new node

Node newNode = new Node(data);

//If list is empty

if(head == null) {

//Both head and tail will point to newNode

head = tail = newNode;

//head's previous will point to null

head.previous = null;

//tail's next will point to null, as it is the last node of the list

tail.next = null;

}

else {

//newNode will be added after tail such that tail's next will point to newNode

tail.next = newNode;

//newNode's previous will point to tail

newNode.previous = tail;

//newNode will become new tail

tail = newNode;

//As it is last node, tail's next will point to null

tail.next = null;

}

}

//reverse() will reverse the doubly linked list

public void reverse() {

//Node current will point to head

Node current = head, temp = null;

//Swap the previous and next pointers of each node to reverse the direction of the list

while(current != null) {

temp = current.next;

current.next = current.previous;

current.previous = temp;

current = current.previous;

}

//Swap the head and tail pointers.

temp = head;

head = tail;

tail = temp;

}

//display() will print out the elements of the list

public void display() {

//Node current will point to head

Node current = head;

if(head == null) {

System.out.println("List is empty");

return;

}

while(current != null) {

//Prints each node by incrementing the pointer.

System.out.print(current.data + " ");

current = current.next;

}

}

public static void main(String[] args) {

ReverseList dList = new ReverseList();

//Add nodes to the list

dList.addNode(1);

dList.addNode(2);

dList.addNode(3);

dList.addNode(4);

dList.addNode(5);

System.out.println("Original List: ");

dList.display();

//Reverse the given list

dList.reverse();

//Displays the reversed list

System.out.println("\nReversed List: ");

dList.display();

}

}

**Output:**

