# EXPERIMENT:- 1.1

**Aim :** Compare The Triplets.

## Objectives :

1. To Learn about Data structure.
2. To Learn about Arrays.
3. To Learn Traversal and Comparison in array.

## Pseudo Code :

Step 1) Start

Step 2) Take First array as input.

Step 3) Take Second array as input.

Step 4) Compare the corresponding array elements.

Step 5) Count the Points.

Step 6) Print the points.

Step 7) Stop

## Program Code :

## //21BCS8908

#include <bits/stdc++.h>

using namespace std;

int main()

{

int sum1=0,sum2=0;

int arr1[3],arr2[3];

for(int i=0;i<3;i++)

{

cin>>arr1[i];

}

for(int i=0;i<3;i++)

{

cin>>arr2[i];

}

for(int i=0;i<3;i++)

{

if(arr1[i] > arr2[i])

{

sum1++;

}

else if (arr2[i] > arr1[i])

{

sum2++;

}

}

cout<<sum1<<" "<<sum2;

}

# Output :

# 3 code.jpg

# 3 output.jpg

**Aim :** Diagonal Difference.

## Objectives :

1. To Learn about Data structure.
2. To Learn about Arrays.
3. To find Diagonal Difference.

## Pseudo Code :

Step 1) Start

Step 2) Take size of matrix as input.

Step 3) Take matrix as input.

Step 4) Count the first diagonal sum.

Step 5) Count the second diagonal sum.

Step 6) Calculate the absolute difference of both diagonal.

Step 7) Print the absolute difference.

Step 7) Stop.

## Program Code :

## //21BCS8908

# #include <bits/stdc++.h>

# using namespace std;

# int main()

# {

# int size,i=0,j=0;

# cin>>size;

# int arr[size][size];

# for(i=0;i<size;i++)

# {

# for(j=0;j<size;j++)

# {

# cin>>arr[i][j];

# }

# }

# int diagonal1=0,diagonal2=0;

# j=0;

# for(i=0;i<size;i++)

# {

# diagonal1 += arr[i][j];

# j++;

# }

# j = size-1;

# for(i=0;i<size;i++)

# {

# diagonal2 += arr[i][j];

# j--;

# }

# int abs\_diff = 0;

# abs\_diff = abs(diagonal1 - diagonal2);

# cout<<abs\_diff<<endl;

# }

# Output :

# 4 code.jpg

# 4 output.jpg

## Learning Outcomes :

1. How Arduino is installed .
2. How to use Arduino IDE software
3. How to import various libraries of Arduino IDE
4. Important parts of Arduino UNO