Discrete Structure & Logic Lab

ABHISHEK RAJPUT

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Lab 3:

For instance, you have two sets, write a program to perform Difference operation between the sets in C.

```
#include <iostream> // ABHISHEK RAJPUT
using namespace std; // 2100290120007
int main()
  int i,j,n,m,a[50],b[50],c[50];
  cout<<"Size of first array: ";</pre>
  cin>>m;
  cout<<"Size of second array: ";</pre>
  cin>>n;
  cout<<"Enter the element of array first: ";
  for(i=0;i<m;i++)
     cin >> a[i];
  cout<<"Enter the element of array second: ";</pre>
  for(j=0;j< n;j++)
    cin >> b[j];
  cout<<"Set difference is:\n";
  int k=0;
  for(i=0;i< m;i++){
     for(j=0;j< n;j++)
       if(a[i] == b[i])
```

```
}
         if(j==m){
              if(a[i] != b[j]){
                   c[k] = a[i];
                   k++;
               }
    for(i=0;i<k;i++)
         cout<<c[i]<<" ";
    return 0;
}
       #include <iostream>
using namespace std;
                                                  // ABHISHEK RAJPU
// 2100290120007
      int main()
             int i,j,n,m,a[50],b[50],c[50];
cout<<"Size of first array: ";</pre>
             cin>>m;
cout<<"Size of second array: ";</pre>
             cin>n;

cout<<"Enter the element of array first: ";

for(i=0;i<m;i++)
             cin>>a[i];
cout<<"Enter the element of array second: ";
for(j=0;j<n;j++)
    cin>>b[j];
cout<<"Set difference is:\n";</pre>
           }
if(j==m){
   if(a[i] != b[j]){
      c[k] =a[i];
      k++;
             }
for(i=0;i<k;i++)
    cout<<c[i]<<" ";
return 0;
```

break;

OUTPUT

```
Size of first array: 3
Size of second array: 3
Enter the element of array first: 10 20 30
Enter the element of array second: 30 40 50
Set difference is:
10 20
...Program finished with exit code 0
Press ENTER to exit console.
```