DSTL LAB-2

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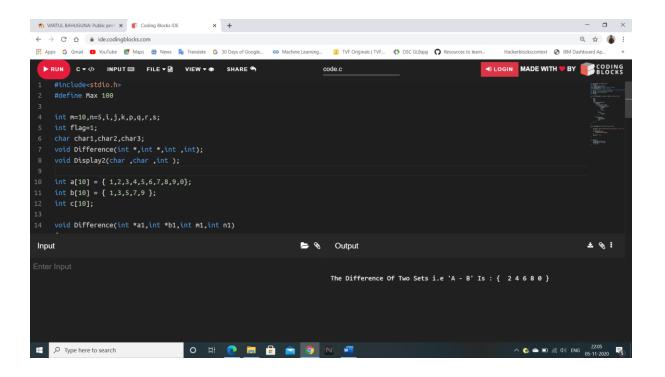
1. Write a program in C to create two sets and perform the Difference operation on sets.

ANS.

INPUT:-

```
flag=1;
        for(j=0;j<n1;j++){</pre>
             if(b1[j]==a1[k]){
                 flag=1;
                 q++;
                 break;
             }
             else{
                 flag=0;
             }
        if(flag==0){
             c[p]=a1[k];
             p++;
        }
void Display2(char ac,char bc,int m1)
    printf("\nThe Difference Of Two Sets i.e '%c - %c' Is : { ",ac,b
c);
    r = m1 - q;
    for(p=0;p<r;p++){</pre>
        printf("%2d",c[p]);
    printf(" }");
int main(){
    Difference(a,b,m,n);
    Display2('A','B',m);
    return 0;
```

OUTPUT:-



2. Write a program in C to create two sets and perform the Symmetric Difference operation

ANS.

INPUT:-

```
#include<stdio.h>
void symmDiff(int arr1[], int arr2[], int n, int m)
    int i = 0, j = 0;
    while (i < n \&\& j < m)
        if (arr1[i] < arr2[j])</pre>
            printf("%d ",arr1[i]);
            i++;
        }
        else if (arr2[j] < arr1[i])</pre>
            printf("%d ",arr2[j]);
            j++;
        }
        else
             i++;
            j++;
        }
    }
int main()
    int arr1[] = {2, 4, 5, 7, 8, 10, 12, 15};
    int arr2[] = {5, 8, 11, 12, 14, 15};
    int n = sizeof(arr1)/sizeof(arr1[0]);
    int m = sizeof(arr2)/sizeof(arr2[0]);
```

```
symmDiff(arr1, arr2, n, m);
return 0;
}
```

OUTPUT:-