

**AIM:** Write a C program to show the difference of two given sets.

**IMPLEMENTATION:**

```
#include<stdio.h>
#define max 100
int ifexists(int z[], int u, int v)
{
    int i;
    if (u==0) return 0;
    for (i=0; i<=u;i++)
        if (z[i]==v) return (1);
    return (0);
}

void main()
{
    int p[max], q[max],r[max];
    int m,n;
    int i,j,k;
    printf("Enterlengthoffirstarray:");
    scanf("%d",&m);
    printf("Enter%d elements of first array\n",m);
    for(i=0;i<m;i++ )
        scanf("%d",&p[i]);
    printf("\nEnterlengthofsecondarray:");
    scanf("%d",&n);
    printf("Enter%d elements of second array\n",n);
    for(i=0;i<n;i++ )
        scanf("%d",&q[i]);
    k=0;
```

```

for (i=0;i<m;i++)
{
    for (j=0;j<n;j++)
    {
        if (p[i]==q[j])
        { break; }
    }
    if(j==n)
    {
        if(!ifexists(r,k,p[i]))
        {
            r[k]=p[i];
            k++;
        }
    }
}
printf("\nThe difference of the two array is:\n");
for(i = 0;i<k;i++)
    printf("%d\n",r[i]);
}

```

### OUTPUT:

```

C:\Users\test\Desktop\shrey.exe
Enter length of first array:5
Enter 5 elements of first array
1
2
3
4
5
Enter length of second array:6
Enter 6 elements of second array
2
3
4
5
6
7
The difference of the two array is:
1
Process returned 1 (0x1)   execution time : 48.195 s
Press any key to continue.

```

