PROGRAM-1

Write a program in C to create two sets and perform union operation on these two sets.

```c
#include<stdio.h>

void main()

{

int i,k=0,x[10],y[10],c[25],j,n,n1,d[25],f=0;

printf("\n how many elements in SET 1:");

scanf("%d",&n);

printf("\n enter 1st SET elements");

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

{

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

}

printf("\n how many elements in set 2:");

scanf("%d",&n1);

printf("\n enter 2st SET elements");

for(i=0;i<n1;i++)

{

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

}

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

{

c[k]=x[i];

k++;

}

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

{

for(j=0;j<n1;j++)

{
```

```c
if(y[i]==x[j])
break;
}
if(j==n)
{
c[k]=y[i];
k++;
}
}
printf("\n the union set is:{");
for(i=0;i<k;i++)
printf("%d",c[i]);
printf("}\n");
for(j=0;j<n;j++)
{
for(i=0;i<n1;i++)
{
if(y[i]==x[j])
break;
}
if(i!=n1)
{
d[f]=y[i];
f++;
}
}
}
```

OUTPUT:

```
how many elements in SET 1:3



 enter 1st SET elements1

2

3



 how many elements in set 2:3



 enter 2st SET elements3

4

5



 the union set is:{12345}
```