

**AIM:** Implementation of Global data flow

Analysis **ALGORITHM:**

**Step-1: Start the Program Execution.**

**Step-2: Read the total Numbers of Expression**

**Step-3: Read the Left and Right side of Each**

**Expressions Step-4: Display the Expressions  
with Line No**

**Step-5: Display the Data flow movement with  
Particular Expressions**

**Step-6: Stop the Program Execution**

**CODE:**

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<string.h>
```

```
struct op
```

```
{
```

```
char l[20];
```

```
char r[20];
```

```
}
```

```
op[10], pr[10];
```

```
void main()
```

```
{
```

```
int a, i, k, j, n, z = 0, m, q,lineno=1;
```

```
char * p, * l;
```

```
char temp, t;
```

```

char * tem;char *match;

printf("enter no of values");
Harshit Aggarwal
RA1911003010782

scanf("%d", & n);

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

{

printf("\tleft\t");

scanf("%s",op[i].l);

printf("\tright\t");

scanf("%s", op[i].r);

}

printf("intermediate Code\n");

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

{ printf("Line No=%d\n",lineno);

printf("\t\t\t%s=", op[i].l);

printf("%s\n", op[i].r);lineno++;

}

printf("****Data Flow Analysis for the Above Code

***\n"); for(i=0;i<n;i++)

{

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

{

match=strstr(op[j].r,op[i].l);

if(match)

{

printf("\n %s is live at %s \n ",

op[i].l,op[j].r); }

```

}

## OUTPUT:

