

RA1911003010575

Dhawal Patil

CSE

EXP12: Simple Code Generator

```
#include<stdio.h>

#include<stdlib.h>

#include<time.h>

#define MIN_PER_RANK 1

#define MAX_PER_RANK 5

#define MIN_RANKS 3

#define MAX_RANKS 5

#define PERCENT 30

void main()

{

int i,j,k,nodes=0;

srand(time(NULL));

int ranks=MIN_RANKS+(rand()%(MAX_RANKS-MIN_RANKS+1));

printf("DIRECTED ACYCLIC GRAPH\n");

for(i=1;i<ranks;i++)

{

int new_nodes=MIN_PER_RANK+(rand()%(MAX_PER_RANK-

MIN_PER_RANK+1));

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

for(k=0;k<new_nodes;k++)

if((rand()%100)<PERCENT)
```

```
printf("%d->%d;\n",j,k+nodes);
```

```
nodes+=new_nodes;
```

```
}
```

```
}
```

```
0->11;
```

```
6->11;
```

```
9->11;
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console. 
```