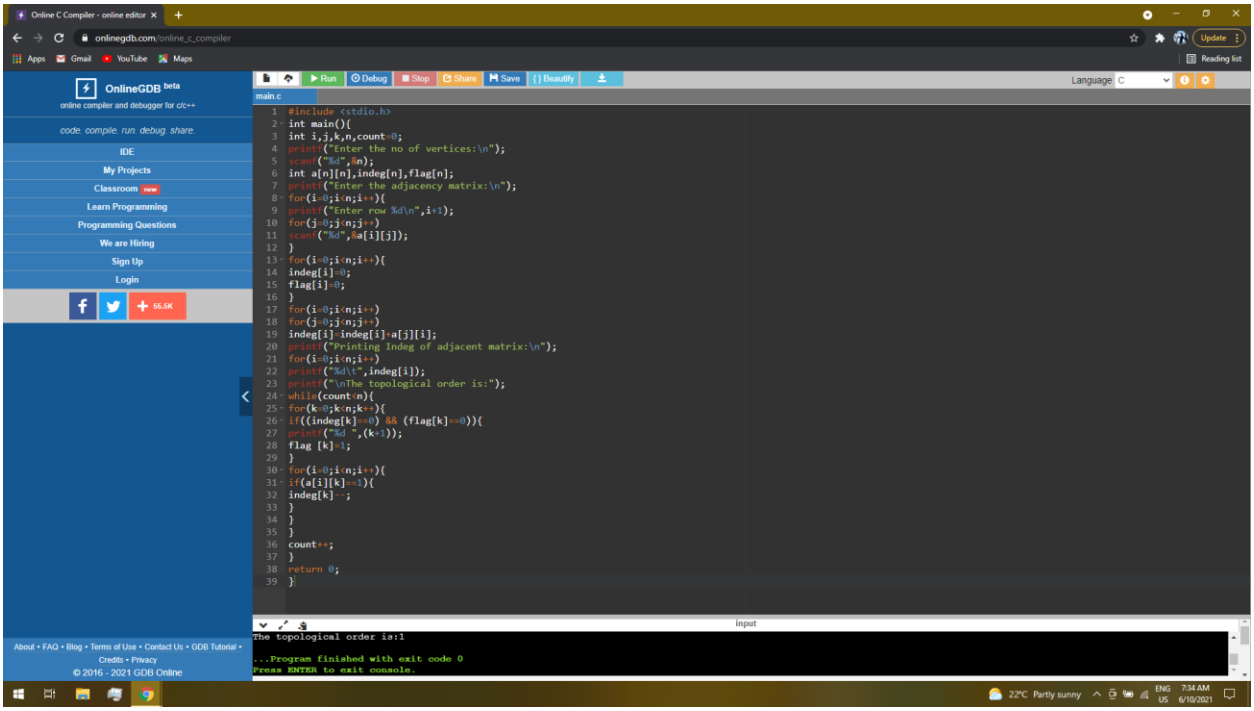
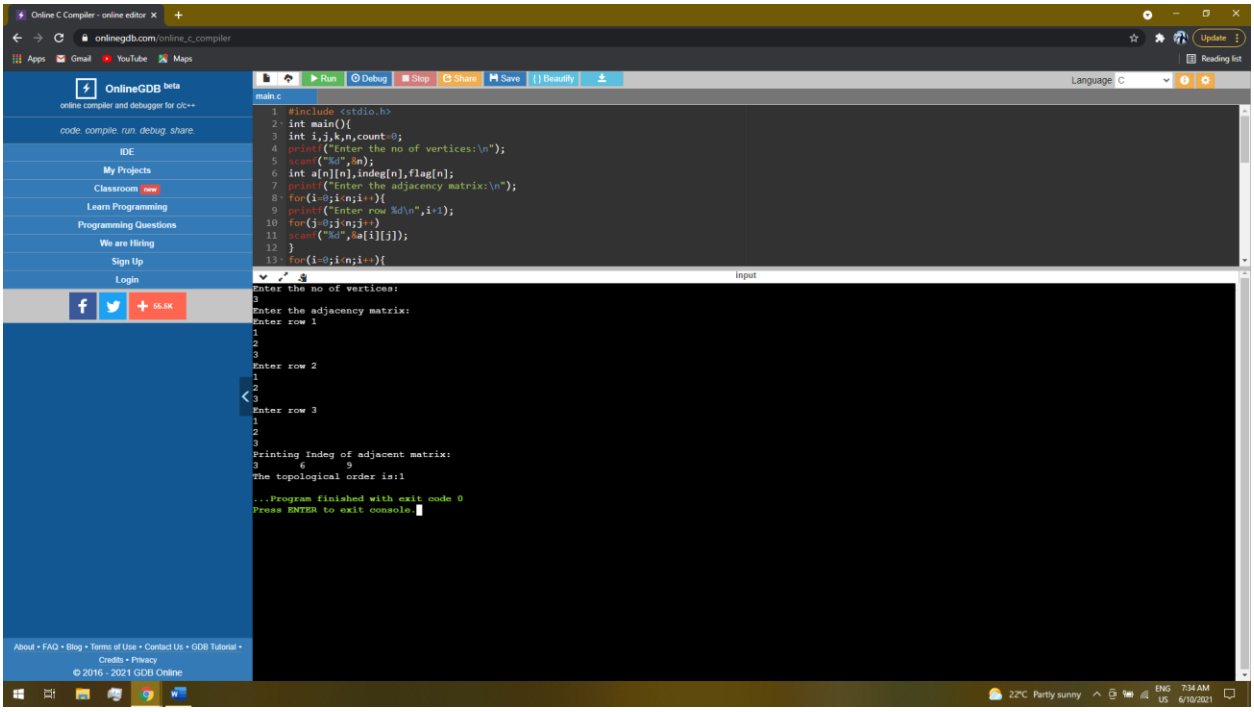
OUTPUT FOR TOPOLOGICAL SORT





CODE FOR TOPOLOGICAL SORT

```
#include <stdio.h>

int main(){

int i,j,k,n,count=0;
```

```
printf("Enter the no of vertices:\n");
scanf("%d",&n);
int a[n][n],indeg[n],flag[n];
printf("Enter the adjacency matrix:\n");
for(i=0;i<n;i++){
printf("Enter row %d\n",i+1);
for(j=0;j<n;j++)
scanf("%d",&a[i][j]);
}
for(i=0;i<n;i++){
indeg[i]=0;
flag[i]=0;
}
for(i=0;i<n;i++)
for(j=0;j<n;j++)
indeg[i]=indeg[i]+a[j][i];
printf("Printing Indeg of adjacent matrix:\n");
for(i=0;i<n;i++)
printf("%d\t",indeg[i]);
printf("\nThe topological order is:");
while(count<n){
for(k=0;k<n;k++){
if((indeg[k]==0) && (flag[k]==0)){
printf("%d ",(k+1));
flag [k]=1;
}
for(i=0;i<n;i++){
if(a[i][k]==1){
indeg[k]--;
```

```
}
}
}
count++;
}
return 0;
}
```