

```
*****SHARED MEMORY: WRITESHM*****
```

```
Key of the shared memory is: 98304
```

```
Enter data to write to shared memory: Wussup World?
```

```
The data written is : Wussup World?
```

```
• s4csbs@rajagiri-OptiPlex-5090:~/Desktop/S4 OS/Expt9 -  
- Shared Memory/"shared
```

```
*****SHARED MEMORY: SHARED DATA*****
```

```
Key of shared memory is: 98304
```

```
Data from shared memory: Wussup World?
```

```
*****MESSAGE QUEUS: WRITING DATA*****
```

```
Write message to send: Goodbye World
```

```
The data is : Goodbye World
```

```
• s4csbs@rajagiri-OptiPlex-5090:~/Desktop/S4 OS/  
/Expt8 - Message Queues/"readdata
```

```
*****MESSAGE QUEUS: READING DATA*****
```

```
Data received is Goodbye World
```

```
*****PIPES*****
```

```
Parent pass value to child
```

```
Enter data: Hello World
```

```
Child received data
```

```
Buffer: Hello World
```

```
Enter no of vertices: 6
```

```
Enter adjacency matrix:
```

```
0 0 0 0 0 0
```

```
0 0 0 0 0 0
```

```
0 0 0 1 0 0
```

```
0 1 0 0 0 0
```

```
1 1 0 0 0 0
```

```
1 0 1 0 0 0
```

```
printing adjacency matrix:
```

```
0      0      0      0      0      0
```

```
0      0      0      0      0      0
```

```
Enter adjacency matrix:
```

```
0 0 0 0 0 0
```

```
0 0 0 0 0 0
```

```
0 0 0 1 0 0
```

```
0 1 0 0 0 0
```

```
1 1 0 0 0 0
```

```
1 0 1 0 0 0
```

```
printing adjacency matrix:
```

```
0      0      0      0      0      0
```

```
0      0      0      0      0      0
```

```
0      0      0      1      0      0
```

```
0      1      0      0      0      0
```

```
1      1      0      0      0      0
```

```
1      0      1      0      0      0
```

```
which node to start from?: 5
```

```
Result:
```

```
4      5      2      3      1      0
```

```

#include<stdio.h>
#include<stdlib.h>
void main()
{
    int v,i,j,k=0,top=-1;
    printf("Enter no of vertices: ");
    scanf("%d",&v );
    int adj[v][v];
    printf("Enter adjacency matrix:\n");
    for(int i=0;i<v;i++)
        for(int j=0;j<v;j++)
            scanf("%d",&adj[i][j]);
    printf("printing adjacency matrix: \n");
    for(i=0;i<v;i++)
    {
        for(j=0;j<v;j++)
        {
            printf("%d\t",adj[i][j]);
        }
        printf("\n");
    }
    int visited[v];
    int stack[v];
    for( i=0;i<v;i++)
        visited[i]=0;
    void push(int x)
    {
        top++;
        stack[top]=x;
    }
    void pop()
    {
        printf("%d\t",stack[top]);
        top--;
    }
    void topsort(int n)
    {
        for(int j=0;j<v;j++)
            if(adj[n][j]!=0 && visited[j]==0)

```

```

        topsort(j);

        push(n);
        visited[n]=1;
    }
    int z;
    printf("\nwhich node to start from?: ");
    scanf("%d",&z);
    topsort(z);
    printf("\nResult: \n");
    z=0;
    for(i=0;i<v;i++)
    {
        if(visited[i]==0)
        {
            printf("%d\t", i);
            z++;
        }
    }
    for(i=0;i<v-z;i++)
    {
        pop();
    }
    printf("\n");
}

```