## **DSA Assignment-2**

```
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Batch-O2_TP304
include<iostream>
using namespace std;
class Queue
{
private:
int size;
int f;
int r;
long int *phone;
string *name;
 public:
  Queue(int size);
  void Insert();
  void Delete();
  void display();
};
Queue::Queue(int size)
  this->size = size;
  f = -1;
  r = -1;
  phone = new long int[size];
  name = new string[size];
}
void Queue::Insert()
if((r + 1) \% size == f)
 f = (f+1)\%size;
if(f==-1)
 { f=0;
```

```
r=0;
  }
else
  r = (r+1)\%size;
 cout<<"Enter Phone Number: ";
  long int x;
  cin>>x;
  phone[r]=x;
  cout<<endl<<"Enter Name: ";
  string y;
  cin>>y;
  name[r]=y;
}
void Queue::display()
{cout<<endl;
int i = r+1;
if(f == -1)
 cout<<"No call dialed till now"<<endl;
do
 i = (i-1)\%size;
   if(i==-1)
   i=size-1;
   cout<<name[i]<<" "<<phone[i]<<endl;
 while(i!=(f)%size);
}
cout<<endl;
}
int main()
Queue q(10);
int ch;
 do { cout<<"1) Insert Call"<<endl<<"2) Display call"<<endl<<"Press any other key to
EXIT"<<endl;
       cout<<"Enter your choice : "<<endl;</pre>
       cin>>ch;
   switch (ch)
{
     case 1: q.Insert();
```

```
break;
  case 2: q.display();
  break;
}
while(ch==1 || ch==2);
cout<<"Code Exited as choice was other key";
}</pre>
```