Program Queue

```cpp
#include <iostream>
#include<conio.h>
#include<stdlib.h>
#define max 5
using namespace std;

int main()
{
     int queue[max],front=0,rear=-1;
     int ch=0, data,temp,count=0,count1,front1;
     clrscr();
     do
     {
          cout<<"\n1. Enqueue-Insert the element";
          cout<<"\n2. Dequeue-Delete the element";
          cout<<"\n3. Display the queue";
          cout<<"\n4. Quit";
          cout<<"\nEnter Your Choice ";
          cin>>ch;

     switch(ch)
     {
     case 1:
          if(count==max)
          cout<<"Queue is full";
          else
          {
               cout<<"Enter data : ";
               cin>>data;
               rear=(rear+1)%max;
               queue[rear]=data;
               count++;
          }
               count1=count;
               break;

     case 2:
          if(count==0)
          cout<<"\nQueue is empty";
          else
          {
               data = queue[front];
               cout<<data<< " is delected\n";
               front=(front+1)%max;
               count--;
          }
               front1=front;
               break;

     case 3:
          count1=count;
          front1=front;
          if(count1==0)
          cout<<"\nQueue is empty";
          else
          {
          while(count1>0)
```

```
            {
                    cout<< queue[front1] << " ";
                    front1=(front1+1)%max;
                    count1--;
            }
        }
        break;
        case 4: exit(0);
        }
        cout<<"Continue[1/0]";
        cin>>ch;
        }while(ch==1);
}
```

Output:
1. Enqueue-Insert the element
2. Dequeue-Delete the element
3. Display the queue
4. Quit
Enter Your Choice 1
Enter data : 10
Continue[1/0]1

1. Enqueue-Insert the element
2. Dequeue-Delete the element
3. Display the queue
4. Quit
Enter Your Choice 2
10 is delected
Continue[1/0]1

1. Enqueue-Insert the element
2. Dequeue-Delete the element
3. Display the queue
4. Quit
Enter Your Choice 3

Queue is emptyContinue[1/0]1

1. Enqueue-Insert the element
2. Dequeue-Delete the element
3. Display the queue
4. Quit
Enter Your Choice 4