NAME:SAYALI JIVAN CHAUDHARI

ROLL NO.:14

PRN NO.2023015400005055

1)implementation of operation based on queue

```
#include <iostream>
using namespace std;
int queue[100], n = 100, front = - 1, rear = - 1;
void Insert() {
  int val;
  if (rear == n - 1)
  cout<<"Queue Overflow"<<endl;
  else {
    if (front == - 1)
    front = 0;
    cout<<"Insert the element in queue : "<<endl;
    cin>>val;
    rear++;
    queue[rear] = val;
```

```
  }
}
void Delete() {
  if (front == - 1 || front > rear) {
    cout<<"Queue Underflow ";
    return ;
  } else {
    cout<<"Element deleted from queue is : "<<
queue[front] <<endl;
    front++;;
  }
}
void Display() {
  if (front == - 1)
  cout<<"Queue is empty"<<endl;
  else {
    cout<<"Queue elements are : ";
    for (int i = front; i <= rear; i++)
    cout<<queue[i]<<" ";
```

```
        cout<<endl;
    }
}
int main() {
    int ch;
    cout<<"1) Insert element to queue"<<endl;
    cout<<"2) Delete element from queue"<<endl;
    cout<<"3) Display all the elements of queue"<<endl;
    cout<<"4) Exit"<<endl;
    do {
        cout<<"Enter your choice : "<<endl;
        cin>>ch;
        switch (ch) {
            case 1: Insert();
            break;
            case 2: Delete();
            break;
            case 3: Display();
            break;
```

```
        case 4: cout<<"Exit"<<endl;
        break;
        default: cout<<"Invalid choice"<<endl;
      }
   } while(ch!=4);
   return 0;
}
```