**Implementation of queue using Array (Java Code)**

import java.util.Scanner;

public class QueueArray {

public static final int MAX = 5;

public static int front = -1;

public static int rear= -1;

public static void insert(int S[])

{

Scanner sc = new Scanner(System.in);

if(isFull(rear))

System.out.println("Queue Overflow, Insert not possible");

else

{

System.out.println("Enter a data to be add: ");

if(front==-1)

{

front = 0;

}

rear++;

S[rear] = sc.nextInt();

}

}

public static void Delete(int S[])

{

if(isEmpty(front))

System.out.println("Queue Underflow, delete not possible");

else

{

System.out.println("Deleted item is "+S[front]);

if(front==rear)

{

rear=-1;

front=-1;

}

else

{

front++;

}

}

}

public static void display(int S[])

{

if(front==-1)

System.out.println("Empty queue");

else

{

System.out.println("Array elements are: ");

for(int i = front;i<=rear;i++)

{

System.out.print(S[i]+" ");

}

System.out.println();

}

}

public static boolean isFull(int rear)

{

return rear==MAX-1;

}

public static boolean isEmpty(int front)

{

return front==-1;

}

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Program for creating queue using array");

int[] S = new int[MAX];

while(true)

{

System.out.println("Manu for different operation");

System.out.println("Press 0: Exit");

System.out.println("Press 1: Insert");

System.out.println("Press 2: Delete");

System.out.println("Press 3: Display");

System.out.println("Enter your choice: ");

int choice = sc.nextInt();

switch(choice)

{

case 0: System.exit(0);

case 1: insert(S);

break;

case 2: Delete(S);

break;

case 3: display(S);

break;

default: System.out.println("Wrong choice, try again");

}

}

}

}