**13) QUEUE OPERATIONS**

**Program:**

#include<stdio.h>

#include<process.h>

#include<stdlib.h>

#define MAX 5

int front=-1,rear=-1,queue[MAX];

void enqueue();

void dequeue();

void display();

int main()

{

int ch;

while(1)

{

printf("\n\n1.enqueue\n2.dequeue\n3.Display\n4.Exit");

printf("\n\nEnter your choice(1-4):");

scanf("%d",&ch);

switch(ch)

{

case 1: enqueue();

break;

case 2: dequeue();

break;

case 3: display();

break;

case 4: exit(0);

default: printf("\nWrong Choice!!");

}

}

}

void enqueue()

{

int val;

if(rear==MAX-1)

{

printf("\nqueue is full!!");

}

else

{

printf("\nEnter element to enqueue:");

scanf("%d",&val);

front=front+1;

queue[front]=val;

}

}

void dequeue()

{

if(front==-1)

{

printf("\nqueue is empty!!");

}

else

{

printf("\nDeleted element is %d",queue[rear]);

front=front-1;

}

}

void display()

{

int i;

if(front==-1)

{

printf("\nqueue is empty!!");

}

else

{

printf("\nqueue is...\n");

for(i=front;i>=0;--i)

printf("%d\n",queue[i]);

}

}

**Output:**

