Qn1.

#include<stdio.h>

#define n 5

int main()

{

int queue[n],ch=1,front=0,rear=0,i,j=1,x=n;

printf("Queue using Array");

printf("\n1.Insertion \n2.Deletion \n3.Display \n4.Exit");

while(ch)

{

printf("\nEnter the Choice:");

scanf("%d",&ch);

switch(ch)

{

case 1:

if(rear==x)

printf("\n Queue is Full");

else

{

printf("\n Enter no %d:",j++);

scanf("%d",&queue[rear++]);

}

break;

case 2:

if(front==rear)

{

printf("\n Queue is empty");

}

else

{

printf("\n Deleted Element is %d",queue[front++]);

x++;

}

break;

case 3:

printf("\nQueue Elements are:\n ");

if(front==rear)

printf("\n Queue is Empty");

else

{

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

{

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

printf("\n");

}

break;

case 4:

exit(0);

default:

printf("Wrong Choice: please see the options");

}

}

}

return 0;

Output

Enter the Choice:1

Enter no 1:1

Enter the Choice:3

Queue Elements are:

1

Press 1: Insert an element

Press 2: Delete an element

Press 3: Display the element

Press 4: search an element

Enter your choice3

Elements in a Queue are :1,3,Enter t

he element you want to search:

Enter the Choice:2

Deleted Element is 1

Enter the Choice:4