```
#include <stdio.h>
#include <stdlib.h>
typedef struct node{
 int data;
 struct node *link;
}node;
node *root=NULL;
void enqueue()
               //insert at end (rear)
 node *temp;
 temp=(node *)malloc(sizeof(node));
 printf("Enter the node element\n");
 scanf("%d",&temp->data);
  temp->link=NULL;
 if(root==NULL)
 root=temp;
 }
 else
  node *p=root;
  while(p->link!=NULL)
  p=p->link;
 p->link=temp;
 }
void dequeue()
node *temp;
if(root==NULL)
                       //delete from front
 printf("Queue is empty\n");
```

```
else
{
temp=root;
root=temp->link;
temp->link=NULL;
free(temp);
}
}
void display()
node *temp=root;
if(temp==NULL)
 printf("Queue is empty\n");
}
else
 while(temp!=NULL)
   printf("%d\n",temp->data);
  temp=temp->link;
 }
}
}
int main()
int op,len;
while(1)
{ printf("Enter the operation\n1.Enqueue\n2.Dequeue\n3.Display\n4.Exit\n");
 scanf("%d",&op);
 switch (op)
 {
 case 1:enqueue();
  break;
 case 2: dequeue();
  break;
 case 3: display();
  break;
 case 4: exit(0);
  break;
 default: printf("No such operation\n");
 }
}
return 0;
```

```
}
Output:
```

```
Enter the operation
1.Enqueue
2.Dequeue
3.Display
4.Exit
20
30
40
Enter the operation
1.Enqueue
2.Dequeue
3.Display
4.Exit
Enter the operation
1.Enqueue
2.Dequeue
3.Display
4.Exit
30
40
Enter the operation
1.Enqueue
2.Dequeue
3.Display
4.Exit
```