/*Linear queue i.e lab number 2*/

```
Method 1:
#include<stdio.h>
#include<conio.h>
#include<process.h>
#define max 5
int rear=-1,front=0,count=0;
int queue[max];
void enqueue()
      if(rear = max-1)
            printf("The queue is full\n");
      else
            int a;
            printf("Enter the data to be inserted\n");
            scanf("%d",&a);
            rear=rear+1;
            queue[rear]=a;
            count++;
}
void dequeue()
      if(rear<front)
            printf("The queue is empty\n");
      else
            printf("The data deleted from the queue is %d\n",queue[front]);
            front++;
            count--;
int main()
      int choice;
      clrscr();
      do
      if(count==0)
                  rear=-1;
                  front=0;
      printf("\nEnter your choice:\n1.Enqueue\n2.Dequeue\n3.Exit\n");
      scanf("%d",&choice);
      switch(choice)
```

```
{
                   case 1:
                         enqueue();
                         break;
                   case 2:
                         dequeue();
                         break;
                   case 3:
                         exit(0);
      }while(choice<=3);</pre>
      getch();
      return 0;
}
/*Linear queue i.e lab number 2*/
Method: 2
#include<stdio.h>
#include<conio.h>
#include<process.h>
#define max 5
int rear=0,front=0;
int queue[max];
void enqueue()
      if(rear==max)
            printf("The queue is full\n");
      else
      {
            int a;
            printf("Enter the data to be inserted\n");
            scanf("%d",&a);
            queue[rear]=a;
            rear=rear+1;
      }
void dequeue()
      if(rear==front)
            printf("The queue is empty\n");
      else
            printf("The data deleted from the queue is %d\n",queue[front]);
            front++;
}
```

```
int main()
      int choice;
      clrscr();
      do
      printf("\nEnter your choice:\n1.Enqueue\n2.Dequeue\n3.Exit\n"); scanf("%d",&choice);
      switch(choice)
                     case 1:
                           enqueue();
                           break;
                     case 2:
                           dequeue();
                           break;
                     case 3:
                           exit(0);
      }while(choice<=3);</pre>
      getch();
      return 0;
}
```