```
program CursorSteuerung;

uses crt, dos;

const
     ucursor =#72;
     dcursor =#80;
     lcursor =#75;
     rcursor =#77;
     lcursorb=#75;
     rcursorb=#77;
     lcursork=#75;
     rcursork=#77;
     ucursork=#72;
     dcursork=#80;
     lcursorp=#75;
     rcursorp=#77;
     ucursorp=#72;
     dcursorp=#80;

     enter = #13;
     esc   = #27;
type
   kundensatz=record
         name:string[20];
         tel:string[10];
         Strasse:string[20];
end;

Speisesatz=record
      Nr:integer;
      Speisename:String[20];
      Preis:real;
end;

Bestellsatz=record
      Tel:string[50];
      Rechnungsbetrag:real;
      Pizzanummer:integer;
      Pizzamenge:integer;
end;

    Kundendatei=file of Kundensatz;
    Speisedatei=file of Speisesatz;
    Bestelldatei=file of Bestellsatz;

var
  wahl1     :char;
  sucher    :string[20];
  sucher2   :integer;
  kundenfil :kundendatei;
  Speisefil :Speisedatei;
  Bestellfil:Bestelldatei;
  Kundenrec :Kundensatz;
  Speiserec :Speisesatz;
  Bestellrec:Bestellsatz;
  x         :boolean;
  cursor,cursork,cursorb,cursorp:char;
  inputcursor,inputcursorb,inputcursork,inputcursorp:char;
  k,p,b,i,q :integer;
  col       :byte;
  reg       :registers;
  wahlk,wahlp,wahlb,wahl:byte;
```

```
Procedure GetKey;
 begin
     inputcursor:=readkey;
     if inputcursor = #0 then
        cursor:=readkey;
     case cursor of
          lcursor : begin

                         i:=i-1;
                         if i=0 then i:=4;
                    end;
          rcursor : begin

                         i:=i+1;
                         if i = 5 then i:=1
                    end;
     end;
 end;
Procedure GetKeyb;
begin
     inputcursorb:=readkey;
     if inputcursorb = #0 then
        cursorb:=readkey;
     case cursorb of
           ucursor :  begin
                           b:=b-1;
                          if b=0 then b:=4;
                     end;
          dcursor :  begin
                          b:=b+1;
                          if b = 5 then b:=1
                     end;
       end;
 end;

Procedure GetKeyk;
 begin
     inputcursork:=readkey;
     if inputcursork = #0 then
        cursork:=readkey;
     case cursork of

          ucursork : begin
                          k:=k-1;
                          if k=0 then k:=5;
                     end;

          dcursork : begin
                         k:=k+1;
                         if k = 6 then k:=1
                     end;
      end;
 end;

Procedure GetKeyp;
 begin
     inputcursorp:=readkey;
     if inputcursorp = #0 then
        cursorp:=readkey;
     case cursorp of

          ucursorp : begin
```

```
                        p:=p-1;
                        if p=0 then p:=5;
                    end;

          dcursorp : begin
                        p:=p+1;
                        if p = 6 then p:=1
                    end;

      end;
 end;

Procedure BestellungMenu;
 Begin
     window(1,1,20,1);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Bestellung');
 end;

Procedure KundentabelleMenu;
 Begin
     window(21,1,40,1);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Kundentabelle');
 end;

Procedure PizzatabelleMenu;
 Begin
     window(41,1,60,1);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Pizzatabelle');
 end;


Procedure EndeMenu;
 Begin
     window(61,1,80,1);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Ende');
 end;


Procedure Highlight;
 Begin
      window(1,2,80,25);
      clrscr;
      if i=1 then
         begin
             col:=10;
             BestellungMenu;
             wahl:=1;
             col:=1;
             KundentabelleMenu;
             PizzatabelleMenu;
             EndeMenu;
```

```
         end;

      if i=2 then
         begin
             col:=10;
             KundentabelleMenu;
             wahl:=2;
             col:=1;
             BestellungMenu;
             PizzatabelleMenu;
             EndeMenu;
         end;

      if i=3 then
         begin
             col:=10;
             PizzatabelleMenu;
             wahl:=3;
             col:=1;
             BestellungMenu;
             KundentabelleMenu;
             EndeMenu;
         end;

      if i=4 then
         begin
             col:=10;
             EndeMenu;
             wahl:=4;
             col:=1;
             BestellungMenu;
             KundentabelleMenu;
             PizzatabelleMenu;

         end;
 end;


Procedure Bestellungaufgeben;
 Begin
     window(1,2,20,2);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Aufgeben');
 end;

Procedure Bestellungausgeben;
 Begin
     window(1,3,20,3);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Ausgeben');
 end;

Procedure Bestellungannulieren;
 Begin
     window(1,4,20,4);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Annulieren');
```

```
 end;

Procedure Bestellungleer;
 Begin
     window(1,5,20,5);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Datei-neu/Testphase');
 end;


Procedure Kundeneinfuegen;
 Begin
     window(21,2,40,2);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Einf•gen');
 end;

Procedure Kundenaendern;
 Begin
     window(21,3,40,3);
     textbackground(col);
     textcolor(white);
     clrscr;
     write(' ndern');
 end;

Procedure Kundenloeschen;
 Begin
     window(21,4,40,4);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('L”schen');
 end;

Procedure Kundenausgeben;
 Begin
     window(21,5,40,5);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Ausgeben');
 end;

Procedure Kundenleer;
 Begin
     window(21,6,40,6);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Datei-neu/Testphase');
 end;

Procedure HighlightKunden;
 Begin
     if k=1 then
        begin
            col:=10;
            Kundeneinfuegen;
```

```
            wahlk:=1;
            col:=1;
            Kundenaendern;
            Kundenloeschen;
            Kundenausgeben;
            Kundenleer;
         end;

      if k=2 then
         begin
            col:=10;
            Kundenaendern;
            wahlk:=2;
            col:=1;
            Kundeneinfuegen;
            Kundenloeschen;
            Kundenausgeben;
            Kundenleer;
         end;

      if k=3 then
         begin
            col:=10;
            Kundenloeschen;
            wahlk:=3;
            col:=1;
            Kundeneinfuegen;
            Kundenaendern;
            Kundenausgeben;
            Kundenleer;
         end;

      if k=4 then
         begin
            col:=10;
            Kundenausgeben;
            wahlk:=4;
            col:=1;
            Kundeneinfuegen;
            Kundenaendern;
            Kundenloeschen;
            Kundenleer;
         end;
      if k=5 then
         begin
            col:=10;
            Kundenleer;
            wahlk:=5;
             col:=1;
             Kundeneinfuegen;
             Kundenaendern;
             Kundenloeschen;
             Kundenausgeben;



end;

end;
procedure eingabek;
 begin
     Textbackground(black);
     clrscr;
```

```
     writeln('Eingabe eines Kunden!');
     readln;
 end;

procedure aendernk;
 begin
     textbackground(black);
     clrscr;
     writeln(' ndern eines Kunden!');
     readln;
 end;

procedure loeschenk;
 begin
     textbackground(black);
     clrscr;
     writeln('L”schen eines Kunden!');
     readln;
 end;

procedure ausgebenk;
 begin
     textbackground(black);
     clrscr;
     writeln('Ausgeben eines Kunden!');
     readln;
 end;

procedure leerk;
 begin
     textbackground(black);
     clrscr;
     writeln('Kunden leer!');
     readln;
 end;

Procedure Kundenverwaltung;
 begin
     textbackground(black);
     wahlk:=1;
     repeat
      begin
          reg.ah := 3;
          reg.bh := 0;
          intr (16, reg);
          reg.ch := reg.ch or $20;
          reg.ah := 1;
          intr (16, reg);
      end;

          col:=1;
          k:=wahlk;
          repeat
                textbackground(black);
                HighlightKunden;
                getkeyk;
          until (inputcursork = #13) or (cursork=#75) or (cursork=#77);
          if (cursork<>#75) and (cursork<>#77)  or (inputcursork=#13)Then
           Begin
                window(1,2,80,25);
                case wahlk of
                  1:eingabek;
                  2:aendernk;
```

```
                  3:loeschenk;
                  4:ausgebenk;
                  5:leerk;
                end;
           end;

          until (cursork=#75) or (cursork=#77);
            begin
                reg.ah := 3;
                reg.bh := 0;
                intr (16, reg);
                reg.ch := reg.ch and $DF;
                reg.ah := 1;
                intr (16, reg);


     end;
end;

Procedure HighlightBestell;
begin
     if b=1 then
        begin
             col:=10;
             Bestellungaufgeben;
             wahlb:=1;
             col:=1;
             Bestellungausgeben;
             Bestellungannulieren;
             Bestellungleer;

        end;

     if b=2 then
        begin
             col:=10;
             Bestellungausgeben;
             wahlb:=2;
             col:=1;
             Bestellungaufgeben;
             Bestellungannulieren;
             Bestellungleer;

        end;

     if b=3 then
        begin
             col:=10;
             Bestellungannulieren;
             wahlb:=3;
             col:=1;
             Bestellungaufgeben;
             Bestellungausgeben;
             Bestellungleer;

        end;

     if b=4 then
        begin
             col:=10;
             Bestellungleer;
             wahlb:=4;
             col:=1;
```

```
              Bestellungaufgeben;
              Bestellungausgeben;
              Bestellungannulieren;

        end;


end;

procedure aufgebenb;
 begin
     Textbackground(black);
     clrscr;
     writeln('Bestellung aufgeben!');
     readln;
 end;

procedure ausgebenb;
 Begin
     textbackground(black);
     clrscr;
     writeln('Bestellung ausgeben!');
     readln;
 end;

procedure annulieren;
 begin
   textbackground(black);
   clrscr;
   writeln('Bestellung annulieren!');
   readln;
 end;

procedure leerb;
 begin
   textbackground(black);
   clrscr;
   writeln('Bestellung leer!');
   readln;
 end;

Procedure Bestellverwaltung;
     begin
        textbackground(black);
        wahlb:=1;
        repeat
           begin
            reg.ah := 3;
            reg.bh := 0;
            intr (16, reg);
            reg.ch := reg.ch or $20;
            reg.ah := 1;
            intr (16, reg);
           end;

           col:=1;
           b:=wahlb;
           repeat
                 textbackground(black);
                 HighlightBestell;
                 getkeyb;
           until (inputcursorb = #13) or (cursorb=#75) or (cursorb=#77);
```

```
            if (cursorb<>#75) and (cursorb<>#77) or (inputcursorb=#13) Then
            Begin
            window(1,2,80,25);

             case wahlb of
                 1: aufgebenb;
                 2: ausgebenb;
                 3: annulieren;
                 4: leerb;
             end;
     end;
     until (cursorb=#75)or (cursorb=#77);
     begin
     reg.ah := 3;
     reg.bh := 0;
     intr (16, reg);
     reg.ch := reg.ch and $DF;
     reg.ah := 1;
     intr (16, reg);


end;




end;

Procedure Pizzaeinfuegen;
Begin
     window(41,2,60,2);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Einfuegen');
end;

Procedure Pizzaherausnehmen;
Begin
     window(41,3,60,3);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Herausnehmen');
end;

Procedure Pizzaaendern;
Begin
     window(41,4,60,4);
     textbackground(col);
     textcolor(white);
     clrscr;
     write(' ndern');
end;

Procedure Pizzaliste;
Begin
     window(41,5,60,5);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Liste');
end;
```

```
Procedure Pizzaleer;
Begin
     window(41,6,60,6);
     textbackground(col);
     textcolor(white);
     clrscr;
     write('Datei-neu/Testphase');
end;

Procedure HighlightPizza;
begin
     if p=1 then
        begin
             col:=10;
             Pizzaeinfuegen;
             wahlp:=1;
             col:=1;
             Pizzaherausnehmen;
             Pizzaaendern;
             Pizzaliste;
             Pizzaleer;

        end;

     if p=2 then
        begin
             col:=10;
             Pizzaherausnehmen;
             wahlp:=2;
             col:=1;
             Pizzaeinfuegen;
             Pizzaaendern;
             Pizzaliste;
             Pizzaleer;


        end;

     if p=3 then
        begin
             col:=10;
             Pizzaaendern;
             wahlp:=3;
             col:=1;
             Pizzaeinfuegen;
             Pizzaherausnehmen;
             Pizzaliste;
             Pizzaleer;

        end;

     if p=4 then
        begin
             col:=10;
             Pizzaliste;
             wahlp:=4;
             col:=1;
             Pizzaeinfuegen;
             Pizzaherausnehmen;
             Pizzaaendern;
             Pizzaleer;
```

```
        end;
     if p=5 then
        begin
             col:=10;
             Pizzaleer;
             wahlp:=5;
             col:=1;
             Pizzaeinfuegen;
             Pizzaherausnehmen;
             Pizzaaendern;
             Pizzaliste;

        end;


end;

procedure einfuegenp;
 begin
     Textbackground(black);
     clrscr;
     writeln('Pizza einf•gen!');
     readln;
 end;

procedure loeschenp;
 begin
     textbackground(black);
     clrscr;
     writeln('Pizza l”schen!');
     readln;
 end;

procedure aendernp;
 begin
     textbackground(black);
     clrscr;
     writeln('Pizza „ndern!');
     readln;
 end;

procedure pizzalisten;
 begin
     textbackground(black);
     clrscr;
     writeln('Pizzaliste!');
     readln;
         end;


procedure leerp;
 begin
     textbackground(black);
     clrscr;
     writeln('Pizza leer!');
     readln;
          end;

Procedure Speiseverwaltung;
   begin
       wahlp:=1;
       repeat
```

```
         begin
             reg.ah := 3;
             reg.bh := 0;
             intr (16, reg);
             reg.ch := reg.ch or $20;
             reg.ah := 1;
             intr (16, reg);
         end;

        col:=1;
        p:=wahlp;
        repeat
             HighlightPizza;
             getkeyp;
        until (inputcursorp = #13) or (cursorp=#75) or (cursorp=#77);
        if (cursorp<>#75) and (cursorp<>#77) or (inputcursorp=#13) Then
          Begin
              window(1,2,80,25);
              case wahlp of
               1:einfuegenp;
               2:loeschenp;
               3:aendernp;
               4:pizzalisten;
               5:leerp;
          end;
  end;
         until (cursorp=#75)or (cursorp=#77);
  begin
     reg.ah := 3;
     reg.bh := 0;
     intr (16, reg);
     reg.ch := reg.ch and $DF;
     reg.ah := 1;
     intr (16, reg);
  end;
end;


Procedure Rechnungsverwaltung;
   begin
      clrscr;
      writeln('Rechnungsverwaltung');
      readln;
   end;



Procedure cursoff;
begin
     reg.ah := 3;
     reg.bh := 0;
     intr (16, reg);
     reg.ch := reg.ch or $20;
     reg.ah := 1;
     intr (16, reg);
end;

Procedure curson;
begin
     reg.ah := 3;
     reg.bh := 0;
     intr (16, reg);
     reg.ch := reg.ch and $DF;
```

```
     reg.ah := 1;
     intr (16, reg);
end;


begin
     textbackground(black);
     clrscr;
     wahl:=1;
     repeat
           cursoff;
           col:=1;
           i:=wahl;
           repeat
                 textbackground(black);
                 clrscr;
                 Highlight;
                 getkey;

           until inputcursor = #13;
           curson;
           window(1,1,80,25);
            case wahl of
                1:Bestellverwaltung;
                2: Kundenverwaltung;
                3: Speiseverwaltung;


           end;
   until (wahl=4) and (inputcursor= #13);

end.
```