

**Stegarescu Olivia si Zaicenco Ilie**

Ex.3

**Program** ex3;

```
type tren=^celula;
      celula=record
        nrinmat:integer;
        statiaain:string;
        anulfabricarii:integer;
        tipulvagon:string;
        capacitate:real;
        proprietar:string;
        prec:tren;
end;
```

```
var p,r,v:tren;
    c:integer;
    s:tren;
```

**Procedure** creare;

```
var r:tren;
begin
  new(r);
  writeln('introduceti nrinmat');
  readln(r^.nrinmat);
  writeln('introduceti statiaain');
  readln(r^.statiaain);
  writeln('introduceti anulfabricarii');
  readln(r^.anulfabricarii);
  writeln('introduceti tipulvagon');
  readln(r^.tipulvagon);
  writeln('introduceti capacitate');
  readln(r^.capacitate);
  writeln('introduceti proprietar');
  readln(r^.proprietar);
  r^.prec:=s;
  s:=r;
end;
```

**Procedure** afisare;

```
var r:tren;
begin
  if s=nil then writeln('stiva e vida')
    else begin writeln('Stiva Include elementele');
      r:=s;
      while r<>nil do begin
        writeln(r^.nrinmat);
        writeln(r^.statiaain);
        writeln(r^.anulfabricarii);
        writeln(r^.tipulvagon);
        writeln(r^.capacitate);
        writeln(r^.proprietar);
        r:=r^.prec;
      end;
    end;
end;
```

```
begin
  s:=nil;
  repeat
    writeln('Meniu: ');
    writeln('1-creare');
    writeln('2-afisare');
    writeln('3-oprire');
    write('Optiune:');
    readln(c);
```

```

case c of
1:create;
2:afisare;
3:
else writeln('Optiuni necunoscute')
end;
until c=3;
end.

```

Ex.4

```

Program ex4;
type Adresa=^Celula;
  Celula=record
    Nume:string;
    Prenume:string;
    Anul:integer;
    DataAngajarii:string;
    Prec:Adresa;
  end;
  var s:Adresa;
      n,i:integer;
Procedure introduce;
  var r:Adresa;
begin
  new(r);
    writeln('Introduceti numele si prenumele');
    readln(r^.Nume);
    readln(r^.Prenume);
    writeln('Introduceti anul nasterii');
    readln(r^.Anul);
    writeln('Introfuceti data angajarii');
    readln(r^.DataAngajarii);
    r^.prec:=s;
    s:=r;
  end;

Procedure Afisare;
var r:Adresa;
begin
  if s=nil then writeln('stiva e vida') else begin
    writeln('stiva este');
    r:=s;
    while r<>nil do begin
      writeln(r^.Nume , r^.Prenume, r^.Anul, r^.DataAngajarii);
      r:=r^.prec;
    end;
  end;
end;

begin
  writeln ('Introduceti nr de elemente');
  readln(n);
  s:=nil;
  for i:=1 to n do
    Introduce;
    Afisare;
  end.

```