TES1.PAS

```
Program Coba;
Var a , b : integer;
Begin
    a := 5;          {1}
    b := 10;         {2}
    writeln;         {3}
end.
```

TES2C.PAS

```
Program Coba;
Var a , b : integer;
Begin
    a := 5;          {1}
    b := 8;
    if a > b then    {2}
       a := 2        {3}
    else
       b := a;
end.
```

TES2D.PAS

```
Program Coba;
Var a , b : integer;
Begin
    A := 5;          {1}
    If a > 3 then    {2}
       a := 2;
    writeln(a);
end.
```

TES3.PAS

```
Program Coba;
var a  : integer;
begin
    a := 5;
    while a < 10 do
    begin
         a := a + 1;
    end;
    a := a + 10;
    writeln;
end.
```

TES4.PAS

```
Program Coba;
Var a  : integer;
Begin
    for a := 5 to 10 do
    begin
         writeln(a);
    end;
    writeln;
end.
```

TES5.PAS

```
Program Coba;
Var a  : integer;
Begin
    a := 5;
    repeat
         a := a + 1;
    until a > 10;
    a := a + 20;
    writeln;
end.
```

TES7.PAS

```
Program Coba;
var a , b, c : integer;
begin
    a := 5;
    b := 8;
    c := 4;
    if (a > b) or (a > c)then
    begin
       a := 2;
    end
    else
    begin
       if b = a then
          b := a
       else
          b := c;
    end;
    readln;;
end.
```

TES8.PAS

```
Program Coba;
var a  : integer;
begin
    a := 5;
    while a < 10 do
    begin
         if a > 5 then
            writeln(a);
         a := a + 1;
    end;
    a := a + 10;
    writeln;
end.
```

TES9.PAS

```
Program Coba;
var a, b  : integer;
begin
    readln (b);
    for a := 1 to 10 do
    begin
         if a > b then writeln(a)
         else  writeln(b);
    end;
    writeln(a, b);
end.
```

TES10.PAS

```
Program Coba;
Var a, b  : integer;
Begin
    Readln (a);
    Repeat
         if a > 3 then
            writeln(a);
         a := a + 1;
    until a > 5;
    writeln(a);
end.
```

TES11.PAS

```
Program Coba;
Var a, b  : integer;
Begin
    Readln (a, b);
    Case a of
    1 : if a > b then
          writeln(a);
    2 : if a < b then
          writeln(b);
    end;
    writeln(a, b);
end.
```

TES12.PAS

```
Program Coba;
var a  : integer;
begin
    a := 5;
    if a > 4 then
    begin
        while a < 10 do
        begin
             if a > 5 then
                writeln(a);
             a := a + 1;
        end;
    end
    else
         a := a + 10;
    writeln;
end.
```

TES27.PAS

```
Program Coba;
var a , b, c : integer;
begin
    a := 5;
    b := 8;
    c := 4;
    if a > b then
    begin
       a := 2;
    end
    else
    begin
      case b of
      1 : b := a;
      2 : b := a + 1;
      else
          b := c;
      end;
    end;
    writeln(a,b);
end.
```

ALGO19.PAS

```
Program BinomialCoefficients;
Var
    i, a, b : integer;
    m, n    : integer;
begin
   readln( m, n );
   a := 1;
   if 2 * m > n then
        b := n - m
   else
        b := m;
   i := 0;
   while i <= b do
   begin
     a := (n - i ) * a + (i +1);
     i := i + 1;
   end;
   writeln( a );
end.
```

ALGO106.PAS

```
Program ComplexNumberToARealPower;
Var
    x, y, w, A, B : real;
    theta, phi, r : real;
begin
     readln( x, y, w, A, B );
     if x > 0 then
     begin
          theta := 0.0;
          phi := arctan(y/x)+theta;
          r := sqrt( x*x+y*y );
          r := exp( w * ln(r));
          a := r * cos( w * phi);
          b := r * sin( w * phi);
     end;

     if (x < 0) and (y >= 0) then
     begin
          theta := 3.1;
          phi := arctan(y/x)+theta;

          r := sqrt( x*x+y*y );
          r := exp( w * ln(r));
          a := r * cos( w * phi);
          b := r * sin( w * phi);
     end;
     if (x<0) and (y<0) then
     begin
          theta := 3.1;
          phi := arctan(y/x)+theta;

          r := sqrt( x*x+y*y );
          r := exp( w * ln(r));
          a := r * cos( w * phi);
          b := r * sin( w * phi);
     end;
     if (x=0) and (y= 0) then
     begin
           a := 0.0;
           b := 0.0;
     end;

     if (x = 0) and (y < 0) then
     begin
          phi := 1.5;
          r := sqrt( x*x+y*y );
          r := exp( w * ln(r));
          a := r * cos( w * phi);
          b := r * sin( w * phi);
     end;

     if (x = 0) and (y > 0) then
     begin
          phi := -1.5707963;
          r := sqrt( x*x+y*y );
          r := exp( w * ln(r));
          a := r * cos( w * phi);
          b := r * sin( w * phi);
     end;
     writeln(a,b)
end.
```