

((example.pas) Este programa demonstra de um modo geral todo o set da linguagem aceite pelo compilador. *)*

```
program Example;

var
  i1, i2: integer;
  r1, r2: real;
  b1, b2: boolean;

function test(a, b: integer) : integer;
var c, d : integer;
begin
  c := 10;
  d := 10;
  test := a + b + c + d;
end;

function rtest(i : integer; r : real) : real;
begin
  rtest := r + i;
end;

function btest(b : boolean; j : integer; k : real) : boolean;
var
  i : integer;
  r : real;
begin
  i := test(j, j) + test(j, j);
  r := rtest(i, k);
  writeln(i, ' ', r);

  if b then
    btest := false;
  else
    btest := true;
end;

begin
  i1 := 10 + 20 div 2;
  i2 := i1 * i1;
  writeln(i1, ' ** 2 = ', i2);

  r1 := 3.1415;
  r2 := r1 * 2;
  writeln(r2, ' = ', r1 * 2.0);

  b1 := true;
  b2 := false;
  b2 := b2;
  writeln(b1, ' <> ', b2);

  if i2 > i1 then
    writeln('i2 > i1');
  else
    writeln('i2 < i1');

  if r2 > r1 then
    begin
      writeln('r2 > r1');
    end;
  else
    begin
      writeln('r2 < r1');
    end;

  i1 := 0;

  while i1 < 3 do
```

```
begin
    writeln('i: ', i1);
    i1 := i1 + 1;
end;

i1 := 10;
i2 := i1;
i1 := test(i1, i2);
writeln(i1);

i1 := 10;
r1 := 10.5;
r1 := rtest(i1, r1);
writeln(r1);

b1 := true;
b2 := btest(b1, 10, 2.0);
writeln(b2);

end.
```