1. Specificarea mini limbajului de programare (EBNF)

```
program = header, declarations, 'begin', instruction list, 'end';
header = 'program', program name, ';';
program name = ID;
declarations = ['type', user defined type, ':', other type, ':'] 'var', variable list, ':', data type, ';';
variable list = ID, { ',', ID };
data type = 'integer' | 'real' | user defined type;
user defined type = ID;
other type = 'array[1..5] of integer';
letter = 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' | 'l' | 'm' | 'n' | 'o' | 'p' | 'q' | 'r' | 's' | 't' |
'u' | 'v' | 'w' | 'x' | 'y' | 'z';
digit = '0' | '1' | '2' | '3' | '4' | '5' | '6' | '7' | '8' | '9';
instruction list = instruction , { '; ', instruction } ;
instruction = assign instruction | if instruction | io instruction | while loop;
assign instruction = ID, ':=', expression, ';';
expression = (ID | CONST), { operator, (ID | CONST) };
if instruction = 'if', boolean expression, 'then begin', instruction list, 'end;', ['else begin', instruction list,
'end;'];
boolean expression = ID, bool operator, expression;
io instruction = 'readln(', ID, ');' | 'writeln(', ID, ');';
while loop = 'while', boolean expression, 'do begin', instruction list, 'end;';
bool operator = '>' | '<' | '<>'; operator = '+' | '-' | '*';
ID = letter , { letter | digit } ;
CONST = digit , ['.'] , { digit } ;
```

2. Textele sursă a 3 mini-programre

1. Perimetrul și aria unui cerc cu rază dată:

2. CMMDC a două numere:

```
program cmmdc;
var a, b: integer;
begin
        readln(a);
        readln(b);
        while a >> b do
        begin
                if a>b then
                begin
                        a := a-b;
                end;
                else begin
                        b:=b-a;
                end;
        end;
        writeln(a);
end
```

3. Suma a n numere citite de la tastatură:

```
program suma;
var n, sum, nr: integer;
begin
    readln(n);
    sum := 0;
    while n>0 do
    begin
        readln(nr);
        sum := sum + nr;
        n := n - 1;
    end;
    writeln(sum);
end
```

3. Programe ce conțin erori:

end

1. Două erori care sunt în același timp erori în limbajul original (pentru care MLP definește un subset)