```
G = (V_N, V_T, P, S)
V_N - finite set of non-terminal symbols.
V_T- finite set of terminal symbols.
P - finite production rules.
S - start symbol.
S = \{ \langle program \rangle \}
V_N = \{ \langle program \rangle, \langle statement \rangle, \langle size\_statement \rangle, \langle color\_statement \rangle, \langle angle\_statement \rangle, \langle size\_statement \rangle, \langle size
<iterations_statement>, <shape_statement>, <move_statement>, <scale_statement>
<rotate_statement>, <mirror_statement>, <axis>,
                                                                                                                                                                                    <draw_statement>,
                                                                                                                                                                                                                                                           <save statement>,
<filename> }
V_T = \{ repeat, times, start, with, shape, circle, square, triangle, polygon, color, background,
scale, rotate, save, as, PNG, JPG, [A-Z], [a-z], [0-9], =, ., ., [, ] }
P = \{ < program > \rightarrow < statement > | < statement > < program > \}
                        <statement> → <size statement> | <color statement> | <angle statement>
                        <ire><iterations_statement> | <shape_statement> | <move_statement> | <scale_statement> |
                        <rotate_statement> | <mirror_statement> | <draw_statement> | <save_statement>
                        <size statement> → size <value>
                        <color statement> → color <value>
                        <angle statement> → angle <value>
                        <ir>
<iri>description
✓ iteration
< value>

                        <shape statement> → shape <shape>
                        <move statement> → move <value> <value>
                        <scale_statement> → scale <value>
                        <rotate statement> → rotate <value>
                        <mirror statement> → mirror <axis>
                        \langle axis \rangle \rightarrow x \mid y
                        <draw statement> → draw
                        <save statement> → save <filename>
                        \langle \text{filename} \rangle \rightarrow \langle \text{string} \rangle
                        <shape> → circle | square | triangle | polygon
                        \langle value \rangle \rightarrow \langle digit \rangle | \langle digit \rangle \langle value \rangle | \langle string \rangle
                        <digit> \rightarrow 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
                        \langle \text{string} \rangle \rightarrow \langle \text{char} \rangle | \langle \text{char} \rangle \langle \text{string} \rangle
                        \langle char \rangle \rightarrow [A-Z] | [a-z] | [0-9] | = |.|, |[|] | ''|'_{-}
}
```