```
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 = \{ < program > \}
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
<ir><iterations statement>, <shape statement>, <move statement>, <scale statement></ti>
<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>
                       <irterations 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>
<iterations statement> → iterations <value></ri>

                       <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 v
                       <draw statement> → draw
                       <save statement> → save <filename>
                       <filename> → <string>
                       <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
                       <char> \rightarrow [A-Z] | [a-z] | [0-9] | = | . | , | [ | ] | ' ' | ' | '
}
```