ASSEMBLY LANGUAGE PROGRAMMING PROJECT

Project Title: -   "**Shape detector**"

Description: -   User enter some unsigned points in one line and then the programs should predict the shape of these numbers if they represents a square, a rectangle, a triangle, or unknown. The result has to be drawn in dot matrix.

Details: -
- User inputs **unsigned 2D** points separated by **commas**.
  - Example: (1,1), (2,2), (3,3)
- Your program should read the points and the detect the shape from the list [Square – Rectangle – Triangle - Unknown]
- Points user enters has to be exact and sorted. For example a triangle should only have 3 points.
- View the result on the input screen as text and on the dot matrix as a drawing.
- Bonus: Let your shape detector detect pentagon and hexagonal and draw them as well.

Example

The input
screen

```
Enter the points:
```

```
(1,1),(3,1),(3,3),(1,3)
```


You will submit:
- A complete flow chart for your program
- Procedures description that contains
  - Task accomplished by the procedure.
  - List of input parameters and their usage.
  - Description of any value calculated/returned by the procedure.
  - Preconditions that must be satisfied before the procedure is called.