

Assembly & Microprocessor Course

Assignment #2

Dr. Bassam Jamil

1. Deadline:

Assignment Due Date: Wednesday 06/28/2017 @ 11:00 PM, NO EXTENSION!!!

Grading: 30 Marks

2. Description:

Write assembly program that draws different views of the house.

- The view should be drawn at the center of the screen.
- The screen resolution 640X480(**Graphic Mode: 12h**).
- The color of drawings is yellow.
- You must draw the following views: Top, Side(right), Front and All (Full).
- The requested view will drawn based on answer the following question presented by the program:

Enter View Letter: T

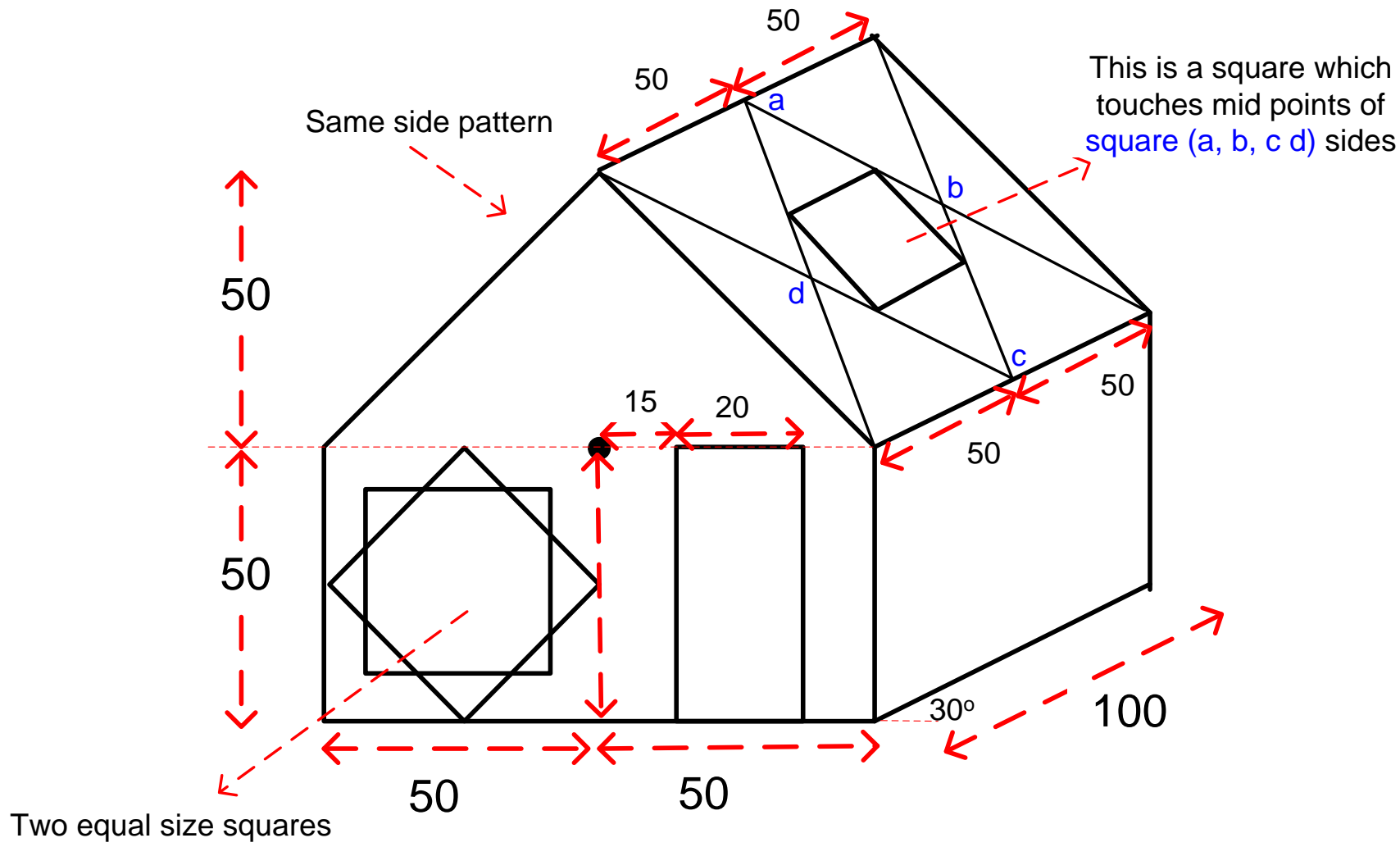
T: Top

S: Side

F: front

A: All

Note: the program draws only one view at each run.



4. Template: you should use the following template to write your program.

Template	Example
.model small .data ;;put your data here variables .code .startup ;;put you code here end	.model small .data A DB 4 B DB 6 R DB ? .code .startup MOV AL, [A] MOV [R], AL end

5. Naming Rules for Variables and Labels:

Follow these rules in writing your code:

Variable	<ul style="list-style-type: none">• Start the name of the variable with a letter.• Don't name your variable Z,C,S,I,D,O or any other letter use a meaningful name.• Don't use dot (.) in the variable name
Label	<ul style="list-style-type: none">• Start the name of the Labels with a letter• Don't use dot (.) in the labels name

6. Grading

Item	Points
Top	5
Front	5
Side	5
All house	10
Report: <ul style="list-style-type: none">• Should satisfy "Ethical and Professional Responsibility For Computer Engineering Department"• Should include: user guide, programmers guide and test-plan.• Final status of your work• Add comments to code	5
Total	30

7. Policies:

1. Each student must solve the assignment and submit it alone.
2. The assignment must be done on ***Emu8086***.
3. Any cheating happened you will take a Zero.
4. **Submission:** you must submit:
 - a. **Source file(s) (.ASM)** having the code of the assignment uploading it on the Moodle
 - b. Submit a soft copy of the **Report**
 - c. Write your name and your ID in the email, in help.txt **and** in the source file (.ASM) as a comment line.
Example:
; Name: Mohammad Ahmad
; Student ID: 1123456

5. Use the **Submission Wizard** in the page of the **Moodle** to upload your files before the deadline.

8. Office hour:

Eng. Ezya:/ Eng. Sara:11-12 daily.

9. Demo

You might be asked to demo and explain your code. You might be asked to change the code. Inability to answer the questions or modify the code will be reflected on your grade.

Good luck!!!

Ethical and Professional Responsibility

For Computer Engineering Department^{(1),(2)}

Code of Ethics

1. Accept responsibility in making decisions consistent with the safety, health, and welfare of the public, and to disclose promptly factors that might endanger the public or the environment;
2. Avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;
3. Be honest and realistic in stating claims or estimates based on available data;
4. Reject bribery in all its forms;
5. Improve the understanding of technology; its appropriate application, and potential consequences;
6. Seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to credit properly the contributions of others;
7. Treat fairly all persons and to not engage in acts of discrimination based on race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression;
8. Avoid injuring others, their property, reputation, or employment by false or malicious action;
9. Assist colleagues and co-workers in their professional development and to support them in following this code of ethics.

Professional Responsibility

1. Strive to achieve the highest quality, effectiveness and dignity in both the process and products of professional work. This includes meeting minimum requirement and optimizing design cost/power/energy/performance.
2. Acquire and maintain professional competence.
3. Know and respect existing laws pertaining to professional work.
4. Accept and provide appropriate professional review.
5. Give comprehensive and thorough evaluations of computer systems and their impacts, including analysis of possible risks.
6. Honor contracts, agreements, and assigned responsibilities.
7. Improve public understanding of computing and its consequences.
8. Access computing and communication resources only when authorized to do so.

References

(1) IEEE. (n.d.) *IEEE Code of Ethics*. (On-line): <http://www.ieee.org/about/corporate/governance/p7-8.html>.

(2) ACM. *ACM Code of Ethics and Professional Conduct*. (On-line): <https://www.acm.org/about-acm/acm-code-of-ethics-and-professional-conduct#sect1>