**Assignment Policy:**

1. Late assignments will NOT be accepted.

2. Cheating is forbidden in this course and will be considered a -**10 mark**.

3.Your submitted workhas to be **neat** and **clean**.

4.Assignments should be **stapled** or placed in an **unsealed** envelope.

5.Please clearly write your **name**, **section number**, and **student number**.

Substantial departures from the above guidelines will NOT be graded.

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*Homework Q1 & Q2 : to be submitted Next Sunday 8/2/2015*

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**1- Categorize each of the following items as either hardware or software by checking** √ **under the right column:**

|  |  |  |
| --- | --- | --- |
| **Item** | **Hardware** | **Software** |
|  ALU |  |  |
|  Speakers |  |  |
|  CPU |  |  |
|  Editor |  |  |
|  Operating System |  |  |
|  RAM |  |  |
|  Word Processor |  |  |
|  Motherboard |  |  |

**2- Fill in the blanks in each of the following statements:**

a) In a C program, statements that begin with the symbol # are called ………………….. directives.

b) First step in C program is ………………….. ,and the program file names should end with the ………………….. extension.

c) The logical unit of the computer that produces information outside the computer for use by the user is the …………………..

d) the compiler detect one type of error called …………………..

e) ………………….. and ………………….. unit are logical units of the computer that retain information.

f) The ………………….. program loads an executable program to the main memory.

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**3- analyze the following problems to identify (input / process / output )**

* Design a program that read weight from user in kilogram then converts it to pound

**Input:**

**Process:**

**Output:**

Design a program that read side of square then calculate and print Area of it.

**Input:**

**Process:**

**Output:**

**4- Which of the following are valid C identifiers? If not explain why**

|  |  |  |
| --- | --- | --- |
| **Identifier** | **Validity** | **Reasons of Invalidity** |
| 3id  |  |  |
| \_yes  |  |  |
| o\_no\_o\_no |  |  |
| i\_aren"t  |  |  |
| me\_to-2 |  |  |
| xYshouldI |  |  |
| star\*it |  |  |
| int |  |  |

**5- Write C statements that accomplish the following: (Note: Declare means define)**

- Declare a variable of type int called ID.

- Initialize a double variable **salary** to 40.5.

- Declare and initialize a constant int variable **length** to 8.

- Declare two char variable **gender1** and **gender 2** in one statement.

**6- Find the errors in the following code and correct them: (5 errors)**

|  |  |  |
| --- | --- | --- |
| **Code** | **Error** | **Correction** |
| #include <stdio>; |  |  |
| int Main (void) |  |  |
| { |  |  |
| /\* find the |  |  |
| errors /\* |  |  |
| doble weight=50.4; |  |  |
| int 2age=22; |  |  |
| char gender; |  |  |
| printf(“end of program”), |  |  |
| } |  |  |