Name: KEY Id#

ICS 103, Term 132

Computer Programming in C

Quiz# 1

 Date: Tuesday, Feb. 11, 2014

# **Q1.** Fill the blank in each of the following:

## RAM is volatile memory that can be accessed in any order (as opposed to sequential access memory).

## Flowchartisa diagram that shows the step-by-step execution of a program.

## Part of the Software development, analyzing the problem involves identifying the problem’s inputs, outputs, and additional requirements.

## In C language, the data type **int** is used for representing integers, the data type **double** is used for representing real numbers and the data type **char** is used for representing characters.

## To read a real number and store it in variable **score**, the following statement is used:

## scanf(“%lf”, &score);

## Anything after the symbol // and before the end of the line is considered a comment.

## Compilers translate high-level language into machine language.

**Q2.** Find the values of the following expressions.

|  |  |
| --- | --- |
| Expression | Value |
| (double) (23/3) | **7.0** |
| 672/100%5 | **1** |
| (double) 6 / (int) 2.5 | **3.0** |
| 14/4\*4.0 | **12.0** |
| int x= 1.8; | **x = 1** |
| double y= 8/3; |  **y = 2.0** |

# **Q3.** In the grid below, assume that each square represents a space and each row represents a line on the screen. Show how the output of the following program will be displayed.

#include <stdio.h>

int main(void) {

int i=-956;

double j=99.517;

printf("%7.0f %10.2f\n",j,j);

printf("%3d %6d",i,i);

return 0;

}

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **1** | **0** | **0** |  |  |  |  |  |  | **9** | **9** | **.** | **5** | **2** |  |  |  |
| **-** | **9** | **5** | **6** |  |  |  | **-** | **9** | **5** | **6** |  |  |  |  |  |  |  |  |  |  |