Name: KEY Id#

ICS 103, Term 103

Computer Programming in C

Quiz# 1

 Date: Tuesday, July 5, 2011

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

## There is one-to-one correspondence between machine language and assembly language.

## A compiler turns the source file into an object file.

##  A linker turns the Object File into an Executable

## Software development process is composed of the following steps:

## Specify problem requirements

## Analyze the problem

## Design the algorithm to solve the problem

## Implement the algorithm

## Test and verify the completed program

## Maintain and update the program

## Pseudo codeisa combination of English phrases and language constructs to describe algorithm steps.

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

## Preprocessor directives are instructions to C Preprocessor to modify the text of a C program before compilation.

## Executable statements are translated into machine language and eventually executed.

## The #include directive is used to include other source files into your source file.

## The #define directive instructs the preprocessor to replace each occurrence of a text by a particular constant value before compilation.

## To write a comment in C we can use any of the following symbols // or /\* \*/.

## To read an integer and a real number and store them in variables x and y respectively, the following statement is used:

## scanf(“%d%lf”, &x, &y);

**Q2.** Show the output of the following program in the space provided below it. Each square corresponds to one space.

#include <stdio.h>

int main(void) {

int i = -99;

double j = 899.567;

printf("%.0f%6.1f%8.2f\n",j,j,j);

printf("%2d%5d",i,i);

return 0;

}

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **9** | **0** | **0** |  | **8** | **9** | **9** | **.** | **6** |  |  | **8** | **9** | **9** | **.** | **5** | **7** |  |  |  |  |
| **-** | **9** | **9** |  |  | **-** | **9** | **9** |  |  |  |  |  |  |  |  |  |  |  |  |  |