Instructor: Professor Neena Kaushik

Office hours (in AT 203): Mondays: 3:15 to 4:15 p.m.
Wednesdays: 10 to 11 a.m.
and by appointment

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Test 1
October 6 – (12:30 p.m – 1:30 p.m)

1) Write a C program that prints average of 2 numbers. Read the 2 numbers using scanf.

Answer

```c
#include "stdafx.h"
#include <stdio.h>
#include <conio.h>

int main(void)
{
    float assignment_score_1;
    float assignment_score_2;
    float average;

    printf("Enter assignment 1 and 2 scores: ");
    scanf("%f%f", &assignment_score_1, &assignment_score_2);
    average = (assignment_score_1 + assignment_score_2)/2;

    printf("\n average = %f", average);
    getch();
    return 0;
}
```
2)

A) Write a printf statement that prints 3.1456 as

\[
\begin{array}{cccccc}
& 3 & . & 1 & 4 & 5 & 6
\end{array}
\]

Answer

\texttt{printf("%8.4f", 3.1456);} \\

B) Write a printf statement that prints 10 as

\[
\begin{array}{ccccccccc}
& & & & & & & & & 1 & 0
\end{array}
\]

Answer

\texttt{printf("%10d", 10);} \\

3) Write a printf statement that prints the integer value of character h.

Answer

\texttt{printf("%d", 'h');}
4) What are the errors in the following pieces of code:

A)
```
#include <stdio.h>
#define a = 100
int main(void)
{
    printf("\n value of a is %d", a);
    return 0;
}
```
Answer

Line 2: `#define` should not have `=` sign.

B)
```
#include <stdio.h>
int main(void)
{
    const letter_grade = 'A+';
    printf("\n value of grade is %c", letter_grade);
    return 0;
}
```
Answer

Line 4:
1) It should be `const char` instead of `const`.
2) It should be `A` instead of `A+`. 