CS 1713
Introduction to Computer Programming II
Assignment 1
Due Wednesday February 1

1. (100 pts) Write a program using **a loop** that outputs the following program with no loops to produce a table of angles in degrees and radians in increments of 10 degrees. The output of your program should be the below program where $\vdots$ is also replaced with code. Name your program *assign1.c* and write your program to print the output on the screen.

```
#include <stdio.h>
#define PI 3.141593

int main()
{
  int degrees = 0;
  double radians;

  printf("Degrees to Radians \n");

  degrees = 0;
  radians = degrees*PI/180;
  printf("%6i %9.6f \n", degrees, radians);

  degrees = 10;
  radians = degrees*PI/180;
  printf("%6i %9.6f \n", degrees, radians);
  .
  .
  .
  degrees = 360;
  radians = degrees*PI/180;
  printf("%6i %9.6f \n", degrees, radians);

}
```

You can use redirection to send the output to a file.

```
fox01> ./assign1 > prog1.c
```

Above command redirects the output of the program to file prog1.c instead of displaying on the terminal window. You can test if your program works by compiling and running prog1.c Prog1.c should produce a table of degrees and radians when executed.

Submit your program electronically using the blackboard system

The program you submit should be your own work. Cheating will be reported to office of academic integrity. Both the copier and copiee will be held responsible.