```
Tyler Plihcik
EE222
1.
EE222 HW1
Developed By Tyler Plihcik on 1/18/2020
//headers
#include <stdio.h>
#include <stdlib.h>
asciiToChar, user enters an ascii value and the program returns the char it
corresponds to
int main()
 //init vars
 int value;
 //prompt user
 printf( "\nPlease enter an ASCII value: \n" );
scanf( "%d" , &value );
 //print result
 printf( "\nThe character associated with %d is: %c\n", value, value);
 return 0;
}
[tylerplihcik@fk-af EE222 % make -f EE_mf
 gcc -Wall -c -g asciiToChar.c
 gcc -Wall -g asciiToChar.o -o runProg
tylerplihcik@fk-af EE222 % ./runProg
 Please enter an ASCII value:
 68
 The character associated with 68 is : D
 tylerplihcik@fk-af EE222 %
```

```
2.
/*
EE222 HW1
Developed By Tyler Plihcik on 1/18/2020
*/

//headers
#include <stdio.h>
#include <stdlib.h>

int main()
{
    //init vars
    float value;
    printf( "\nPlease enter a floating point value: \n" );
    scanf( "%f" , &value );
    printf( "\n%f in decimal notation is: %f\n\n" , value , value );
    printf( "\n%f in exponential notation is: %e\n" , value , value );
    return 0;
}
```

```
tylerplihcik@fk-af EE222 % make -f EE_mf clean
\rm *.o runProg

tylerplihcik@fk-af EE222 % make -f EE_mf

gcc -Wall -c -g decimalFormConversions.c

gcc -Wall -g decimalFormConversions.o -o runProg

tylerplihcik@fk-af EE222 % ./runProg

}

Please enter a floating point value:

678.02

678.020020 in decimal notation is: 678.020020

678.020020 in exponential notation is: 6.780200e+02

tylerplihcik@fk-af EE222 %
```

```
3.
EE222 HW1
Developed By Tyler Plihcik on 1/18/2020
//headers
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
 //init vars
 int years = 0;
 int seconds;
 int exponent;
 int multiplier;
 //prompt user for years
 printf( "\nHow many years old are you?\n " );
 scanf( "%d", &years);
 //calculate multiplier to get years to seconds
 exponent = pow(10, 7);
  multiplier = 3.156 * exponent;
 //multiply years by multiplier above
 seconds = years * multiplier;
 //print out result
 printf( "You are %d seconds old.\n\n", seconds);
}
```

```
tylerplihcik@fk-af EE222 % ./runProg

How many years old are you?
20
You are 631200000 seconds old.

tylerplihcik@fk-af EE222 %
```

```
EE222 HW1
Developed By Tyler Plihcik on 1/18/2020
//headers
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
 // init vars
 int diameter;
 const double PI = 3.14;
 double circumference;
 //prompt user for diameter
  printf( "\nPlease enter the diameter of a circle. " );
 scanf( "%d", &diameter);
 // calc circumference
 circumference = ( double )diameter * PI;
 //print result
  printf( "A circle with diameter %d has a circumference of %f\n", diameter,
                                       circumference);
 return 0;
```

```
tylerplihcik@fk-af EE222 % ./runProg

Please enter the diameter of a circle. 20
A circle with diameter 20 has a circumference of 62.800000
tylerplihcik@fk-af EE222 %
```