```
/*
* HeeChan Kang
* CSC 431 - AI Robotics
* Assignment 2
* Dollar to Yen - Take in dollar spent and exchange rate and simply multiply.
*/
#include <stdio.h>
#include <stdlib.h>
/* Multiply dollars and exchange rate to get yen */
double exchange(double dollars, double exrate) {
      return dollars * exrate;
}
void main(void) {
      double dollars, exrate, yen;
      dollars = 2345.67;
      exrate = 100;
      yen = exchange(dollars, exrate);
      printf("$ %8.21f at an exchange rate of %6.21f equals %12.21f yen\n",
      dollars, exrate, yen);
}
```

heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2\$ gcc money.c -o money heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2\$ ./money \$ 2345.67 at an exchange rate of 100.00 equals 234567.00 yen heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2\$

```
/*
* HeeChan Kang
* CSC 431 - AI Robotics
* Assignment 2
* Dollar to Yen with User Input - Same as above but with user input.
*/
#include <stdio.h>
#include <stdlib.h>
/* Multiply dollars and exchange rate to get yen */
double exchange(double dollars, double exrate) {
      return dollars * exrate;
}
void main(void) {
      double dollars, exrate, yen;
      /* Take user input for dollar and exrate */
      printf("Please input dollar spent: ");
      scanf("%lf", &dollars);
      printf("Please input exchange rate: ");
      scanf("%lf", &exrate);
      yen = exchange(dollars, exrate);
      printf("$ %8.21f at an exchange rate of %6.21f equals %12.21f yen\n",
      dollars, exrate, yen);
}
```

```
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ gcc money.c -o money heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./money
Please input dollar spent: 123
Please input exchange rate: 101.1
$ 123.00 at an exchange rate of 101.10 equals 12435.30 yen heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$
```

```
/*
* HeeChan Kang
* CSC 431 - AI Robotics
* Assignment 2
* Print Hundreds! - Using checkwriter.h given from assignment, utilize writeOnes
* and writeTens to fully writeHundreds.
*/
#include <stdio.h>
#include <stdlib.h>
#include "checkwriter.h"
/*
* writeHundreds takes an integer between zero and a thousand and prints out,
* with appropriate spaces, the English word for that number.
*/
void writeHundreds(int number) {
      int hundreds, tens;
      if (number < 100 && number > 0) {
            writeTens(number);
            printf("\n");
            return;
      }
      else if (number > 100 && number < 1000) {
            hundreds = number/100;
            writeOnes(hundreds);
            printf(" hundred and ");
            tens = number % 100;
            writeTens(tens);
            printf("\n");
      }
      else {
            printf("Invalid input.\n");
            return;
      }
}
void main(void) {
      int input;
      printf("Enter integer between 0 and 1000: ");
      scanf("%d", &input);
      writeHundreds(input);
}
```

```
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ gcc intToString.c -o tToString
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./intToString
Enter integer between 0 and 1000: 5
five
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./intToString
Enter integer between 0 and 1000: 15
fifteen
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./intToString
Enter integer between 0 and 1000: 289
two hundred and eighty nine
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./intToString
Enter integer between 0 and 1000: 1000
Invalid input.
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$
```

```
/*
* HeeChan Kang
* CSC 431 - AI Robotics
* Assignment 2
* Print Check! - Using printHundreds above, included appropriate spacing and other
* print outputs to make it look pretty.
#include <stdio.h>
#include <stdlib.h>
#include "checkwriter.h"
/*
* writeHundreds takes an integer between zero and a thousand and prints out,
* with appropriate spaces, the English word for that number.
*/
void writeHundreds(int number) {
     int hundreds, tens;
     if (number < 100 && number > 0) {
           writeTens(number);
           return;
     }
     else if (number > 100 && number < 1000) {
           hundreds = number/100;
           writeOnes(hundreds);
           printf(" hundred and ");
           tens = number % 100;
           writeTens(tens);
     }
     else {
           printf("Invalid input.\n");
           return;
     }
}
void writeCheck(int number) {
     printf("\n-----
           ----\n\n");
     printf("HeeChan Kang\t\t\t\t\t\tCheck #123456\n");
     printf("Minneapolis\t\t\t\t\n");
     printf("Minnesota\t\tAugsburg Bank Visa\t January 30, 2018\n");
     printf("Pay to the order of: \t\t\t\t $ %d.00\n", number);
     writeHundreds(number);
     printf(" and 00/100 dollars\n\n");
     printf("CSC Department\n");
     printf("Hagfors Center\t\t\tSignature:____\n");
```

```
printf("\n-----\n\n");
}

void main(void) {
   int input;

   printf("Enter integer between 0 and 1000: ");
   scanf("%d", &input);

   writeCheck(input);
}
```

```
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ gcc intToString.c -o intToString
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ ./intToString
Enter integer between 0 and 1000: 354

HeeChan Kang Check #123456
Minneapolis
Minnesota Augsburg Bank Visa January 30, 2018
Pay to the order of: $ 354.00
three hundred and fifty four and 00/100 dollars

CSC Department
Hagfors Center Signature:
heechan@heech-laptop:~/Documents/Git/airobotics/Assignment2$ [
```