## Assignment #1

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1-[20 points]
Write a program to calculate the area of a circle (3.1425*r*r). The
program will output the area of the circle based on a radius value
initialized in the program.
2-[80 points]
Write a program that reads an integer value between 0 and 100
(inclusive), representing the amount of a purchase in cents. Produce
an error message if the input value is not in range. If the input is
valid, determine the amount of change that would be received from one
dollar, and print the number of quarters, dimes, nickels, and pennies
that should be returned. Maximize the coins with the highest value.
Follow the format below.
       Enter the purchase amount [0-100]: 36
OUTPUT:
       Your change of 64 cents is given as:
         2 Quarters
         1 Dimes
         0 Nickels
         4 Pennies
HINT: 64 / 25 equals 2, and 64 % 25 equals 14
Use the following lines of code to read an integer from the user. The
Scanner object will be used.
Don't forget to import the java.util.Scanner package.
import java.util.Scanner;
public static void main(String[] args) {
   // Declare a data type Scanner
       int number;
       Scanner scan = new Scanner (System.in);
       System.out.println("Input a number: ");
        number = scan.nextInt();
   // .....program logic goes here .....
} // end main
```