

Midterm Exam

Name _____

Answer ALL questions. Point values are as indicated

1. (10 pts.) Which of the following are valid identifiers in Java? Which are not? For the invalid identifier, give a reason why they are not valid?
 - a. four_times
 - b. hour's

2. (10 pts.) If the user enters the value 1, what will the program print?

```
n = int(input("Enter n >>"))
```

```
m = n - 1;
m = m + 11;
print("The answer is ", m)
```

3. (20 pts.) Write a program in Python that reads in a weight in pounds. If the weight is positive, it converts it to grams and prints out the weight in grams. If the weight is negative print an error message telling the user that the input is not valid.
(N.B.: Converting pounds to grams requires multiplying by 454).

4. (10 pts.) What will the following program print?

```
b = 14
c = 18

b = b - 2;
for a in range(b, c) :
    print("Our values are ", a, b)
```

5. (10 pts.) What will the following program print?

```
x = 2
y = -6
z = 64

w = -5*x + y*2 + z/8;
if w == 0 :
    print("Hi there! W = ", w)
elif w < 0 :
    print("Good morning! W = ", w)
else :
    print("Bye there! W = " , w)
```

7. (10 pts.) What will the following program print? Write a # in every place that a blank space would appear)

```
x = 234.345
```

```
y = 101.123581
```

```
z = 12043.1
```

```
print("%11.4f\n" % (x))
```

```
print("%9.2f\n" % (z))
```

8. (10 pts.) Write a program that will print the message "Hello, this is your midterm" 12 times. Obviously, your program **must** use a loop to accomplish its purpose.

9. (10 pts.) Write a program in Java that asks the user to enter a number between 1. If the number is less than 12, print the message "Good morning." If it is 12 or greater print the message "Good afternoon."