Name: __________________________

1. (1 pt) Write a program that will print the name of your favorite food.

2. (1 pt) What does this program print?

   ```python
   x=15
   #x=x+1
   #x+1
   print("x=",x)
   ```

3. (1 pt) What does this program print?

   ```python
   x=12
   y=13
   print("x+y", x+y)
   ```

4. (3 pts) Write a program that asks the user to type in their first name, then with a different statement ask the user for their last name and store it in a different variable. Last, print both the first and last name on the same line.

5. (1 pt) What does this print?

   ```python
   x=True
   if x:
       print ("AAA")
   else:
       print ("BBB")
   ```
6. (2 pts) Write a line of code that will take an original item price from the user.
   * The number should be stored as a float, not a string.

7. (2 pts) Continuing from the prior question, calculate the final price of the item if you add a 6% tax.

8. (2 pts) Continuing from the prior question, print the amount you calculated (original price + tax) along with a label (in dollars).
9. (3 pts) Next to each section, list the number that it prints out:

```python
# Section 1
x=4
x=30-x/2
print(x)

# Section 2
x=5
x=3
print (x)

# Section 3
x=50
print(x+1)
print(x+1)

# Section 4
x= 3 > 4
print(x)
if x:
    print("A")
else:
    print("B")

# Section 5
x=6
x+4
print(x+10)

# Section 6
print (11%2)
```

10. (2 pts) Write code that prints the first character of the string, and then the last character.

```python
my_text = "1234567890"
```
11. (2 pts) Cross out the variable names that are not legal in Python.

<table>
<thead>
<tr>
<th>ds9</th>
<th>Darmok%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2sttng</td>
<td>city size</td>
</tr>
<tr>
<td>VOYAGER</td>
<td>engine</td>
</tr>
<tr>
<td>the_void</td>
<td>amount$</td>
</tr>
<tr>
<td>paleMoonlight</td>
<td>totalAmount</td>
</tr>
</tbody>
</table>

12. (4 pts) Write a Python program that will ask the user for their percentage grade. Then print if it is an A (≥ 90), passing (≥ 60) or failing.

13. (1 pt) How do you know if you should create a “while” loop or a “for” loop?
14. (3 pts) What does this code print?

```python
a = 6>5
b = 7<=6
c = 15!=15
d = 15==15
print (a, b, c, d)

if a and b:
    print ("X")
else:
    print ("O")
```

15. (2 pts) Write a `for` loop that will print the numbers from 1 to 50 (inclusive).

16. (3 pts) Write a “while” loop that counts by 5’s from 100 down to 0 (inclusive).
17. (2 pts) Write a program that will use two for loops to print out the following rectangle made of asterisks (*):

```
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * * * * * *
```

18. (2 pts) Explain how red = (255, 0, 0) represents a color.

19. (2 pts) Draw a picture that shows how computer coordinates relate to the screen.
20. (2 pts) Use a for loop to sum the items in this list:

```python
list=[4,7,2,4,2,4,6]
```

21. (3 pts) Mark what is wrong with this code:

```python
name=int(input("Enter username:"))
password=int(input("Enter password:"))
if name == "craven" or password == "mypass":
    input("Access granted")
else
    input("Access denied.")
```