

Name: _____

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

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

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

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

```
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?

```
x=True
if x:
    print ("AAA")
else:
    print ("BBB")
```


9. (3 pts) Next to each section, list the number that it prints out:

```
# 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.

```
my_text = "1234567890"
```

11. (2 pts) Cross out the variable names that are not legal in Python.

<code>ds9</code>	<code>Darmok%</code>
<code>2sttng</code>	<code>city size</code>
<code>VOYAGER</code>	<code>engine</code>
<code>the_void</code>	<code>amount\$</code>
<code>paleMoonlight</code>	<code>totalAmount</code>

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?

```
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:

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

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

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