Task 1

```
In [3]:  #Task 1: Rewrite this line so it's valid:
         #if species = "cat":
         species = "cat"
         if species == "cat":
             print (species)
```

cat

Task 2

```
In [5]:  #Task 2: Code the first line of an if statement that tests whether x has the same value as y
         x =1
         y =1

         if x == y:
             print ("Same Value")
         else:
             print("Different Value")
```

Same Value

Task3

In [ ]:
```python
#Task 3: On line 1, test whether a has the same value as b. On line 2, write that c equals d. Don't forget to
#indent the second line.
a=1
b =1


if a == b:
    c = d
```

Task4

In [ ]:
```python
#Task 4: If total has the value of 100, then tax has the value of 2. Code both lines. Don't forget to indent
#the second line.

if total == 100:
    tax = 2
```

Task 5

In [ ]:
```python
#Task 5: If first_name is "Sherlock", then last_name is equal to "Holmes" and pal is equal to "Watson".
#Code all three lines.
if first_name == "Sherlock":
    last_name = "Holmes"
    pal = "Watson"
```

Task 6

In [11]:
```python
#Task 6: Ask user to Enter "yes" or "no". If user entered "yes" tell Python to print "congrats", if "no", tel
#python to print "better luck next time".

data = input("Enter yes or no: ")

if data.lower() == "yes":
    print("Congrats")
elif data.lower() == "no":
    print("Better luck next time")
else:
    print("Invalid input")
```

```
Enter yes or no: No
Better luck next time
```

Task 7

In [ ]:
```python
#Task 7: Code the first line of an if statement testing whether the variable total is less than 100.

if total < 100:
```

Task 8

In [12]:
```python
#Task 8: Write a program:
#1. Ask user to enter a value in range of 1 -> 1000.
#2. if the value is greater then 500, then write "greater than 500" else write "smaller than 500".

valueRange  = int(input("Enter value between 1 to 1000"))
if valueRange >500:
    print("greater than 500")
else:
    print ("smaller than 500")
```

```
Enter value between 1 to 1000122
smaller than 500
```

Task 9

```
In [18]: #Task 9: Code if statement that tests whether the Difference of a and b (take input from user) is greater
         #than or equal to c= - 7.

         a  = int(input("Enter value of a : "))
         b  = int(input("Enter value of b : "))
         c = -7
         if a-b >= c:
             print("Greater or Equal: True")
         else:
             print("Greater or Equal: False ")
```

```
Enter value of a : 4
Enter value of b : 10
Greater or Equal: True
```

Task 10

```
In [19]: #Task 10: Write an if statement that tests whether a variable is smaller than 99. If the test passes, assign
         #to the variable. Make up the variable name. Remember to indent the second line two spaces.

         var  = int(input("Enter value of Variable : "))

         if var < 99:
             var = 99
         print(var)
```

```
Enter value of Variable : 12
99
```

Task 11

In [22]:
```python
#Task 11: Write an if statement that tests whether a first variable is greater than a second variable. (Take
#both values from the user)
#If the test passes, make the second variable equal to the first variable. Make up the variable names.

var1  = int(input("Enter value of Variable1 : "))
var2  = int(input("Enter value of Variable2 : "))

if var1 > var2:
    var2 = var1
print(f"Var1 is {var1}")
print(f"Var2 is {var2}")
```

```
Enter value of Variable1 : 15
Enter value of Variable2 : 12
Var1 is 15
Var2 is 15
```

In [ ]: