

task-1

In [2]: *#Rewrite this line so it's valid:*
#if species = "cat":

```
if species == 'cat':
```

Cell In[2], line 4

```
    if species == 'cat':
```

^

SyntaxError: incomplete input

task-2

In [4]: *#Code the first line of an if statement that tests whether x has the same value*

```
if x == y:
```

Cell In[4], line 3

```
    if x == y:
```

^

SyntaxError: incomplete input

task-3

In []: *#On line 1, test whether a has the same value as b. On line 2, write that c equals*

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

task-4

In []: *#4: If total has the value of 100, then tax has the value of 2. Code both lines*

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

task-5

```
In [ ]: #If first_name is "Sherlock", then last_name is equal to "Holmes" and pal is equal to "Watson"

if first_name == 'Sherlock':
    last_name == 'Holmes'
    pal == 'Watson'
```

task-6

```
In [5]: #Ask user to Enter "yes" or "no". If user entered "yes" tell Python to print "Congrats" and if user entered "no" tell Python to print "better luck next time"

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

if user == 'Yes' or user == 'yes':
    print('Congrats')

elif user == 'No' or user == 'no':
    print('better luck next time')
else:
    print("error")
```

Enter yes or no: yes
Congrats

task-7

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

if variable < 100:
```

task-8

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

num = int(input("enter a value in range of 1 -> 1000. "))

if num > 500:
    print("greater than 500")
else:
    print("smaller than 500")
```

enter a value in range of 1 -> 1000. 1000
greater than 500

task-9

In [14]: *#9: Code if statement that tests whether the Difference of a and b (take input #than or equal to c= - 7.*

```
a = int(input("enter a value: "))
b = int(input("enter b value: "))
c = -7

if (a-b) > c:
    print("greater")
else:
    print("smaller")
```

```
enter a value: -7
enter b value: -7
greater
```

task-10

In [18]: *#Write an if statement that tests whether a variable is smaller than 99. If the #to the variable. Make up the variable name. Remember to indent the second line*

```
var = int(input("enter variable: \t"))

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

```
enter variable:      1
99
```

task-11

In [22]: *#Write an if statement that tests whether a first variable is greater than a se #both values from the user)*

```
var1 = int(input("enter var1: "))
var2 = int(input("enter var2: "))

if var1 > var2:
    var1 = var2
    print(var1, '\t', var2)
```

```
enter var1: 2
enter var2: 1
1          1
```