ERRORS, LAMBDA, AND LOOP EXERCISE

TASK 1: CONVERT FUNCTIONS INTO LAMBDA EXPRESSIONS

WORK WITH

1.

```python
def mul(num1= 5, num2= 20, num3= 100):
        return num1 + num2 + num3
```

2.

```python
bowl = ["cherries", "orange", "apple", "melon", "figs"]
        def salad(fruit):
            if fruit in bowl:
                print(fruit)
            else:
                print("not in bowl")
```

3.

```python
def inside(num):
        if num in list(range(10)):
            return num**2
        else:
            print("outside")
```

DESIRED OUTPUTS

1. 125 **mul()** parameters are left empty.
2. 'not in bowl' or 'apple'
3. 16 or "outside"

HINTS?

1. For two of the **lambda** expresions, use control flow.
2. For the first **lambda** expression, set three default values.
3. Use the **in** statement.

TASK 2: HANDLING ERRORS WITH LAMBDA AND WHILE LOOP

WORK WITH

```python
    while True:

        try:

            val = int(eval(input("Enter an integer: ")))

            g = lamda x: x*3 if x > 10 else "too low"

            ### CONTROL FLOW GOES HERE  ####

            g(val) > 20

            ##############################

        except:
            continue


        finally:
```

DESIRED OUTPUTS

Enter an integer: 1
Try again please
End code
Enter an integer: 10
Try again please
End code
Enter an integer: 12.12345
Lambda is 36
Input value is 12
End code

HINTS?

1. Use a **break** and **continue** statement.
2. Use conditional operator where g(val) **>** 20.
3. Put the completed code in a function called **error()** and run it.

TASK 3: USE FOR LOOPS WITH LAMBDA

WORK WITH

```python
g = lambda x: x**2 if x > 5 in range(10) else 0
```

DESIRED OUTPUTS

```
Where g(9):     Where g(3):
```

```
100 81                  100 0
101 82                  101 1
102 83                  102 2
103 84                  103 3
104 85                  104 4
105 86                  105 5
106 87                  106 6
107 88                  107 7
108 89                  108 8
109 90                  109 9
```

HINTS?

1. Use a for loop with a range 0 to 10.
2. Use print and add 100 to one of the output values.
3. Use two **+**.

TASK 4: FOR LOOP AND LIST COMPREHENSION

WORK WITH

```
critics = ("Mustafa", "Michael", "Callum", "George")

films = ["Akira", "Blade Runner 2049", "Mr. Robot", "The Ten
Commandments"]
```

DESIRED OUTPUTS

["Mustafa's favourite film is Akira",
"Michael's favourite film is Blade Runner 2049",
"Callum's favourite film is Mr. Robot",
"George's favourite film is The Ten Commandments"]

HINTS?

1.No hints required!