Jhonatan Parada Torres

A)

```
Jhonatan_LAB3 > @ lab3_1.py > ...
       #I avoided using a loop this time to stay in track with the learned topics
       error_message = "Exceptions: Invalid Input"
   6
   7
   8
       try:
   9
            bill = float(input("Enter the amount of the bill: "))
  10
  11
            try:
  12
                percentage = int(input("Enter the percentage of the tip: "))
  13
                tip = bill * (percentage / 100)
  14
  15
                print(f"Tip: ${tip:.2f}")
  16
            except ValueError:
  17
                print(error message)
  18
  19
  20
        except ValueError:
  21
            print(error_message)
  22
• @jhonatanparada499 →/workspaces/Jhonatan ET574 (main) $ /home/codespace/.python/
 tan ET574/Jhonatan LAB3/lab3 1.py
 Enter the amount of the bill: 36.99
 Enter the percentage of the tip: 18
 Tip: $6.66
Jhonatan_LAB3 > @ lab3_2.py > ...
        string = input("Please enter a string: ")
   1
   2
   3
        output = (
   4
            f"Original Text: {string}",
   5
            f"First Letter: {string[0]}",
   6
            f"Last Letter: {string[-1]}",
   7
            f"Reversed Text: {string[::-1]}"
   8
   9
  10
        print(*output, sep='\n')
  11
```

```
• @jhonatanparada499 →/workspaces/Jhonatan_ET574 (main) $ /home/codespace
 tan ET574/Jhonatan LAB3/lab3 2.py
 Please enter a string: Python
 Original Text: Python
 First Letter: P
 Last Letter: n
 Reversed Text: nohtyP
 Jhonatan_LAB3 > @ lab3_3.py > ...
       error_message = "Exceptions: Invalid Input"
  27
  28
  29 dictionary = {
           "first": 0.
  30
           "second": 0,
  31
          "third": 0
  32
  33 }
  34
  35 for key,value in dictionary.items():
  36
           try:
  37
              dictionary[key] = int(
                  input(
  38
                      f"Please enter the {key} integer: "
  39
  40
  41
  42
  43
          except ValueError:
  44
             print(error_message)
  45
              exit
  46
  47
      dict_values = dictionary.values()
  48
  49
       non_sorted_values = list(dict_values)
  50
  51 dictionary["third"] = max(non_sorted_values)
  52 dictionary["first"] = min(non_sorted_values)
  53
  54
       for value in non_sorted_values:
          if value != dictionary["first"] and value != dictionary["third"]:
  55
              dictionary["second"] = value
  56
  57
              sorted_values = list(dict_values)
  58
  59 print("Before sorting:",*non_sorted_values)
      print("After sorting:",*sorted_values)
       ···----, -------, --, ----, ----, ----

    @jhonatanparada499 →/workspaces/Jhonatan ET574 (main) $ /home/codespace/

  tan ET574/Jhonatan LAB3/lab3 3.py
  Please enter the first integer: 7
  Please enter the second integer: 8
 Please enter the third integer: 1
 Before sorting: 7 8 1
```

After sorting: 1 7 8

```
Jhonatan_LAB3 > ♦ lab3_4.py > ...
   1
   2
        # phoneNum = 718-710-4756
    3
        # print("QCC phone number is " + phoneNum + '.')
   4
   5
        phoneNum = '718-710-4756'
   6
        print("QCC phone number is " + phoneNum + '.')
   8
        #B
   9
        # finally = "happily ever after."
        # print("They lived " + finally)
  10
  11
        finally = "happily ever after."
  12
        print("They lived " + finally_)
  13
  14
  15
        #C
  16
        \# age = 20
        # print("I am " + age + " years old.")
  17
  18
  19
        age = 20
        print("I am " + str(age) + " years old.")
  20
  21
  22
        #D
  23
        # age = input("Enter your age: ")
  24
        # print("Next year you will be " + (age+1))
  25
        age = input("Enter your age: ")
  26
  27
        print("Next year you will be " + str((int(age)+1)))
  28

    @jhonatanparada499 →/workspaces/Jhonatan_ET574 (main) $ /home/codespac

 tan ET574/Jhonatan LAB3/lab3 4.py
 QCC phone number is 718-710-4756.
 They lived happily ever after.
 I am 20 years old.
 Enter your age: 18
 Next year you will be 19
```

B)

The most challenging part for me was lab3_3.py because I did not want to write three input("first", "second"...) lines asking for each number, so by using dictionary lists I could automate that task easily in a loop, but that created new problems as well, this time I had

to sacrifice elegancy in it; I also learned to use try statements to handle errors. In the future I want to learn how to manipulate and work with dictionaries better.