07/22

CSI 160 Python Programming

Activity 2: if-else

Indentation in Python is mandatory and defines the scope of control-flow constructs like if statements.

It is mandatory to have an else block?

An else block in an if statement executes only when all preceding if and elif conditions evaluate to False.

The elif keyword can only appear once in an if-elif-else chain.

The expression None evaluates as False in a conditional test.

True/False

True/False

True/False

True

1 non-zero

What is the output of the following code?

In Python, if x: treats any nonzero number or non-empty container as True.

Output: item price = 200600 quantity = 3total purchase = item price * quantity is first time buyer = True 6007 50 if ((total_purchase > 50) and (is first time buyer)): discount = total purchase * 0.10 🥏 60 total purchase (-=) discount 600 - 60 print("Total purchase after discount:", total_purchase) else: print("Total purchase:",total purchase) Output: item price = 10 quantity = 3total purchase = item price * quantity > is first time buyer = True 30>50 -> false if ((total_purchase > 50) and (is_first_time_buyer)): discount = total_purchase * 0.10 total purchase -= discount print("Total purchase after discount:", total_purchase) print("Total purchase:",total purchase) **~ 30**

```
T 197=18 T T 857=25
    18 7=18
                                                    age = 18
if ((age >= 18) and (math pt >= 80 or english_pt >= 75)):
   eligibility = "Eligible for admission"
                                                    math pt = 85
                                                    english pt = 70
else:
   eligibility | "Not eligible for admission"
                                                    Output:
print(eligibility)
                                                    age = 17
                                                    math pt = 75
                                                    english pt = 70
                                                    Output:
      57=100 F 257=100 F 507=100 F
if num items >= 100:
                                               num_items = 5
Output:
   if num items >= 50:
      price_per_item = 6 ...
   else: 57= 20 P 257= 20
                                               num items = 25
      if num_items >= 20:
         price per_item = 7
                                               Output:
      else:
          price per item = 8
total cost = num items * price per item
                                               num_items = 50
print("Total cost for", num items, "items:", total cost)
                                              Output:
                                               num items = 500
                                               Output:
                                                            2500
Convert the nested if-else into a
                                if (num-1>10 and num-2 <5)
single if-else
if (num 1 > 10):
                                             num-3=10%3
   if(num 2 < 5):
                                      nom-3 = 10 + 3
     num 3 = 10 % 3
else:
```

num 3 = 10 * 3