COMP 110

CL08 - elif, Local Variables, and conditionals practice

Variables

Declaration of a variable

```
<name>: <type> = <value>
students: int = 300
message: str = "Howdy!"
```

Update a variable

```
<name> = <new value>
students = 325
message = "See ya!"
```

Diagram

```
def number_info(num: int) -> None:
    if num < 10:
        print("Small number.")
    else:
        if num % 2 == 0:
            print("Even number.")
        else:
            print("Odd number.")
    return num

number_info(num=11)
print(number_info(num=4))</pre>
```

```
def number_info(num: int) -> None:
    if num < 10:
        print("Small number.")

else:
        if num % 2 == 0:
        print("Even number.")

else:
        print("Odd number.")

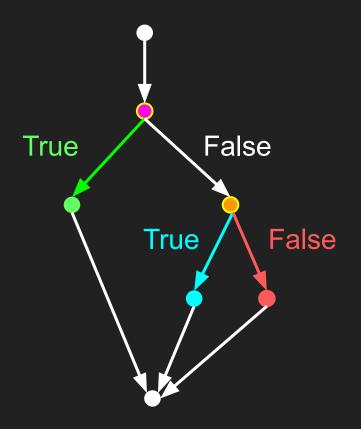
return num</pre>
```

```
def number_info(num: int) -> None:
                                               def number_info(num: int) -> None:
       if num < 10:
                                                   if num < 10:
3
           print("Small number.")
                                           3
                                                       print("Small number.")
       else:
                                                   elif num % 2 == 0:
           if num % 2 == 0:
                                                       print("Even number.")
               print("Even number.")
                                           6
                                                   else:
           else:
                                                       print("Odd number.")
               print("Odd number.")
                                           8
                                                   return num
        return num
```

```
def number_info(num: int) -> None:
                                              def number_info(num: int) -> None:
       if num < 10:
                                                   if num < 10:
3
        _print("Small number.")
                                           3
                                                       print("Small number.")
       else: \ elif
                                                   elif num % 2 == 0:
           if num % 2 == 0:
5
                                                       print("Even number.")
6
               print("Even number.")
                                           6
                                                   else:
           else:
                                                       print("Odd number.")
               print("Odd number.")
                                           8
                                                   return num
        return num
```

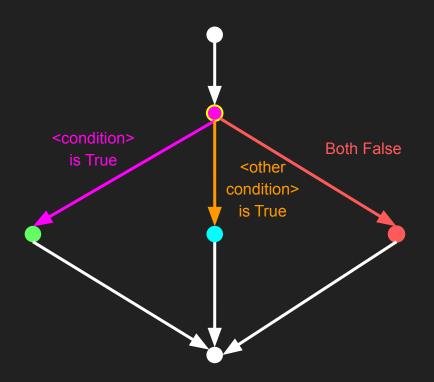
Previous Control Flow

```
if <condition>:
    <do something>
else:
    if <other condition>:
         <do something else>
    else:
         <do third thing>
<rest of program>
```



New Control Flow

```
if <condition>:
   <do something>
elif <other condition>:
   <do something else>
else:
   <do third thing>
<rest of program>
```



Practice

- Write a function called <u>get_weather_report</u> that takes no inputs and returns a str
- It should use the input function to ask the user "What is the weather?" and save that as the local variable weather
- If weather is "rainy" or "cold", it should print "Bring a jacket!"
- If weather is "hot", it should print "Keep cool out there!"
- Otherwise, it should print "I don't recognize this weather."
- return the weather variable