

# Name

Please respond to the following questions. *Show your work* if applicable, and be as *explicit* as possible in your answers.

1. What is the error with the following snippet of code, and how would you fix it? The code should print 8.

```
num = "5"  
print(num + 3)
```

2. Examine the following snippet of code. Will `r` be `True` or `False`, and why?

```
p = 3  
q = 4  
r = p != q
```

3. Draw the flow chart for the following snippet of code:

```
if alarm_broken:  
    wake_up_late()  
elif too_tired:  
    snooze_alarm()  
else:  
    get_out_of_bed()
```

4. What will the final value of `x` be after this code is executed? Show your work!

```
x = 10  
if x < 14:  
    if x > 11:  
        x = 5  
    else:  
        x = 4  
else:  
    x = 3
```

5. Write code that prints "Your number is even!" when `num` is even.

```
num = int(input("Enter a number: >"))  
# YOUR CODE GOES HERE
```