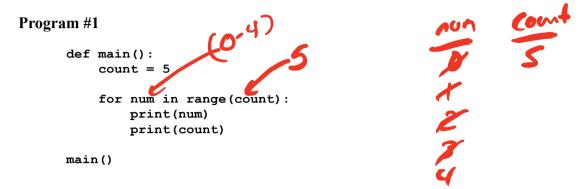
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## **CPADS Lab Activity #6**



In English, describe what the program above does. What output you think the above program will produce? Verify your prediction by typing the code into PyCharm and running the program.

## 0515253545

```
Program #2

def main():
    total = 0
    count = 4

for num in range(count):
    total = total * num

print(total)

main()
```

In English, describe what the program above does. What output you think the above program will produce? Verify your prediction by typing the code into PyCharm and running the program.

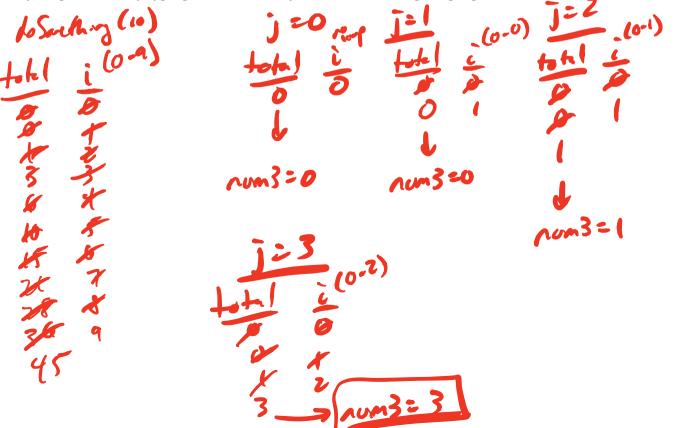


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```
Program #3
                               udds intgos behan Q-s unl-1
     def doSomething(val):
         total = 0
         for i in range(val):
            total = total + i
         return total
     def main():
         # Define variables
         num1 = 10
         num2 = 4
         num3 = 0
         # Do computation
                                   overentes num3 each iteration
         result1 = doSomething(num1)
         print(result1) /
         # Do another computation >
         for j in range(num2):
            num3 = doSomething(j)
         # Print output
                        7 pants 3
         print(num3) = 
     main()
```

In English, describe what the program above does. What value does the print statement output? Verify your prediction by typing the code into PyCharm and running the program.



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Sketch what output you think the following program will produce.

## Program #4

```
import turtle
def doSomething(t,len,val):
    ang = 180 - 180/val
    t.pendown()
    for i in range(val):
        t.forward(len)
        t.right(ang)
        t.forward(len)
def main():
    bob = turtle.Turtle()
    bob.delay = 0.01
    # Define variables
    size = 25
    # Draw graphics
    for i in range(3):
        doSomething(bob, size, 2*i+3)
        bob.penup()
        bob.forward(size*3)
    # Press enter to exit
    input('Press enter to exit')
main()
```

Verify your prediction by typing the code into PyCharm and running the program.

