```
###################
## EXAMPLE: strings
###################
#hi = "hello
there"
#name = "ana"
#greet = hi + name
#print(greet)
#greeting = hi + "
" + name
#print(greeting)
#silly = hi + (" " +
name)*3
#print(silly)

####################
## EXAMPLE: output
####################
#x =
1
#print(x)
#x_str = str(x)
#print("my fav number is", x, ".",
"x=", x)
#print("my fav number is", x_str + "." + "x="
+ x_str)
#print("my fav number is" + x_str + "." + "x=" +
x_str)


####################
## EXAMPLE: input
####################
#text = input("Type
anything... ")
#print(5*text)
#num = int(input("Type a number...
"))
#print(5*num)


####################
## EXAMPLE: conditionals/branching

####################
#x = float(input("Enter a number for x: "))
#y =
float(input("Enter a number for y: "))
#if x == y:
#    print("x and y are
equal")
#    if y != 0:
#        print("therefore, x / y is", x/y)
#elif x <
y:
#    print("x is smaller")
#elif x > y:
#    print("y is
smaller")
#print("thanks!")



####################
## EXAMPLE: remainder

####################
#num = int(input("Enter a number: "))
#if num % 2 == 0:
#
print("number is even")
#else:
#    print("number is
odd")
```

```
####################
## EXAMPLE: while loops
## Try expanding this code to show a
sad face if you go right
## twice and flip the table any more times than that.
## Hint: use a
counter
####################
#n = input("You are in the Lost
Forest\n****************\n****************\n :)\n****************\n****************\nGo left or
right? ")
#while n == "right" or n == "Right":
#    n =
input("You are in the Lost Forest\n****************\n******       ***\n
(?°?°??? ???\n****************\n****************\nGo left or right?
")
#print("\nYou got out of the Lost Forest!\n\o/")



#n = 0
#while n < 5:
#
   print(n)
#    n = n+1


####################
## EXAMPLE: for loops
####################
#for
n in range(5):
#    print(n)
#
#mysum = 0
#for i in range(10):
#    mysum +=
i
#print(mysum)
#
#mysum = 0
#for i in range(7, 10):
#    mysum += i
#print(mysum)
#
#mysum =
0
#for i in range(5, 11, 2):
#    mysum += i
#    if mysum == 5:
#        break
#        mysum
+= 1
#print(mysum)



####################
## EXAMPLE: perfect
squares
####################
#ans = 0
#neg_flag = False
#x = int(input("Enter an integer:
"))
#if x < 0:
#    neg_flag = True
#while ans**2 < x:
#    ans = ans + 1
#if ans**2
== x:
#    print("Square root of", x, "is", ans)
#else:
```

```
#    print(x,
"is not a perfect square")
#    if neg_flag:
#        print("Just checking...
did you mean", -x, "?")


####################
## TEST YOURSELF!
## Modify the
perfect squares example to print
## imaginary perfect sqrts if given a negative
num.
####################
```