

Quiz 2

```
speed = 15
  time = 2
  dist = speed * time
  def calc_dist(speed,time):
      dist = speed * time
      return dist
  speed = speed * 2
  calc_dist(speed,time)
  print(dist)
2. What does the following sample of code print? (If you think it will cause an error, say so)
  def collatz(number):
      if number % 2:
          result = 3 * number + 1
      else:
          result = number / 2
      return result
  number = 15
  collatz(number)
  print("The result is:",result)
3. Consider the following program:
  g = 10
  def max_height(vi,theta):
      math.radians(theta)
      vy = vi * math.sin(theta)
      h = vy**2 / 2 / g
      return h
  theta = 30 #launch angle, in degrees
  vi = 10 #intl speed, m/s
```

1. What does the following sample of code print? (If you think it will cause an error, say so)

- (a) Write some code to finish the program (that is, call the function and print the result)
- (b) With the given numbers for vi and theta, the programmer expected max_height to evaluate to "2.5", but finds instead the result is something completely different. Where is the error?