1 print("Hello world") # this is a comment

2 print(10//3)

3 print(10 % 3) # this finds remainder

4 print(3\*\*3) # this raises the first number to the power of the second

from math import \*

print (float(sqrt(100)))

5 def say\_hi(Surname, Firstname):

Surname= input("Enter your surname: ")

Firstname= input("Enter your firstname: ")

print("Hello " + Surname + Firstname)

say\_hi("Emmanuel", "Yakubu")

6 message = "what's up doc"

n = 17

pi = 3.14159 # this is a constant value that can altered at anytime.

print(message)

print(n)

print(pi)

7 xyz = "other cases in concatinating values"

print(xyz)

print(len("Alura"))

print(2 \* len("hello") + len("goodbye"))

8 inputing functions

str\_seconds = input("Please enter the number of seconds you wish to count")

total\_secs = int(str\_seconds)

hours = total\_secs // 3600

seconds\_still\_remaining = total\_secs % 3600

minutes = seconds\_still\_remaining // 60

seconds\_finally\_remaining = minutes % 60

print("Hrs=", hours, "mins=", minutes, "secs=", seconds\_finally\_remaining)

9 def sqre(a):

return a\*\*2

def sum(a, b):

return a + b

def div(a, b):

return a/b

def sub(a, b):

return a-b

from math import\*

print(sqrt(81))

print(cos(90))

print(sqre(7))

10 updating variables

x = 6 # initialize x

print(x)

x += 3 # increment by 3

print(x)

x -= 1 # decrement by 1

print(x)

11 turtle graphics

import turtle

e = turtle.Turtle()

distance = 50

angle = 90

for \_ in range(20):

e.stamp()

e.forward(distance)

e.right(angle)

distance = distance + 10

angle = angle – 3

12 more on turtle graphics

import turtle  
import math  
wn = turtle.Screen()  
wn.bgcolor("red")  
  
  
a = turtle.Turtle()  
a.pensize(5)  
a.speed(1)  
a.color("blue")  
  
t = turtle.Turtle()  
t.pensize(2)  
t.color("green")  
t.penup()  
t.goto(30, -30)  
t.pendown()  
  
a.right(90)  
a.forward(100)  
a.left(90)  
a.forward(100)  
a.left(90)  
a.forward(100)  
a.left(90)  
a.forward(100)  
a.right(135)  
dist = math.sqrt(100\*100/2)  
a.forward(dist)  
a.right(90)  
a.forward(dist)  
  
  
t.forward(30)  
t.right(90)  
t.forward(30)  
t.right(90)  
t.forward(30)  
t.right(90)  
t.forward(30)  
  
  
  
  
  
turtle.done()

13 debugging

Syntax error

cash\_flow = 100

print(cash flow)

runtime error

print(37//0)

semantic error

cash\_flow = 100

print("cash flow")