1. Given the following code fragment and the input value of 4.0, what output is generated?

cost = float(input("Enter the cost of the item: "))

if cost >= 3.0:

tax = 0.10;

print(cost + (cost \* tax))

else:

print(cost)

* 1. 3
  2. 3.3
  3. 4.0
  4. **4.4**

1. Given the following code fragment and the input value of 2.0, what output is generated?

cost = float(input("Enter the cost of the item: "))

if cost >= 3.0:

tax = 0.10;

print(cost + (cost \* tax))

else:

print(cost);

* 1. 2.2
  2. **2.0**
  3. 3.1
  4. 4.4

1. Given the following code fragment, and an input value of 3, what is the output that is generated?

num\_input = int(input("Enter an integer: "))

if x = 0:

print("The number is zero.\n")

else:

print("The number is not zero.\n")

* 1. x is zero
  2. x is not zero
  3. **error; unable to determine**
  4. x is 3

1. Given the following code fragment, what is the output?

int x=5 **#This line would cause a syntax error, int function**

if( x > 5):

print("x is bigger than 5. ")

print("That is all. ")

print("Goodbye\n")

* 1. x is bigger than 5. That is all
  2. x is bigger than 5
  3. That is all. Goodbye
  4. **Goodbye** #This is the output if we ignore the syntax error

5. Write in Python code:

an if statement that checks to see if "score" is between 50 and 60 inclusive

if score >= 50 and score <= 60:

print(“True”)

6. Write in Python code:

an if statement that checks to see if "temperature" is equal to –5 or 5

if temperature == -5 or temperature == 5:

print(“True”)

7. What is the output for the following code segment:

num1 = 1

num2 = 5

if num1 + num2 < 6:

print(num1)

else:

print(num2)

print(num1 + num2)

**OUTPUT:**

5

6

8. What is the output for the following code segment:

percent = 10

quota = 3

rate = -2

if (percent + quota) < 14 and (rate < quota – 3)):

print(rate)

else:

print(percent)

**OUTPUT:**

10

9. What is the output for the following code segment:

x = 7

y = 4

if ((x == y) or (y < 6)):

x = x + 1

print(x)

if (x == 7) :

y = y + 1

print(y)

**OUTPUT:**

8

4

10. What is the output of the following code:

a = 6

b = 4

if a + b < 10:

a = 5

else:

a = a + 1

a = a + 2

print(a)

**a) 9**

b) 6

c) 7

d) 5

11. What is the value of p after the following code executes:

p = 3

q = 5

if (( p > q) or (p != 4)):

p = p + 1

else:

p = p – 1

p = p \* 2

a) 4

b) 3

**c) 8**

d) 6

12. What is the output of the following code:

r = 3

s = 2

t = 4

if ((r == 4) or !(s < t)): #This line would produce a syntax error, use of ‘!’ character.

r = r – 1

else:

r = r \* 2

r = r + t

print(r)

**a) 6**  #Assuming there was no syntax error

b) 10

c) 5

d) 4

13. What is the output of the following code:

x = 5

y = 8

if x != 5:

y = 7

x = x + y

else:

y = 4

x = x – y

print(x)

a) 13

b) -3

c) 12

**d) 1**