CIS 125 Principles of Programming Logic Python Loops Practice

```
Code
                                      Output
for i in range (0,5):
    print("i = ", i)
for i in range (0,1):
   print("i = ", i)
    for j in range (1,7,3):
       print("j = ", j)
while (x < 3):
   print("x = ", x)
x = 1
while (x < 4):
    print("x = ", x)
x = \overline{1}
while (x < 4):
   print("x = ", x)
    x+=1
x = 1
while (x < 10):
   print("x = ", x)
    \times += 4
y = 1
for x in range (10, 20, 3):
    print("x = ", x, "y = ", y)
for x in range (6,2,-1):
    print("x = ", x)
y = 1
for x in range (6,2,-1):
   print("x = ", x, "y = ", y)
    y +=3
```

```
Code
                                     Output
x = 1
y = 5
while (x < 4 \text{ and } y <= 10):
   print("x = ", x, "y = ", y)
    x += 1
   y += 3
x = 3
again = True
while again:
   print("x = ", x)
    x += 3
    if x > 10:
        again = False
x = 4
while x % 2 == 0:
   print("x = ", x)
    x += 1
x = 2
y = 2
while (x < 10):
   print ("x ", x)
   if x < 5:
        x += 1
    else:
        x += 2
x = 0
y = 2
while (x <= 10):
   print("x = ", x)
    x += y
```

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Answer Key

Code	Output
for i in range(0,5):	i = 0
print("i = ", i)	i = 1
	i = 2
	i = 3
	i = 4
for i in range(0,1):	i = 0
print("i = ", i)	i = 1
for j in range (1,7,3):	j = 1 i = 4
print("j = ", j)] - 4
while (x < 3):	Traceback (most recent call last):
print("x = ", x)	File "D:/HFCC/CIS 125/Python
	Examples/loop13.py", line 1, in <module></module>
	while (x < 3):
	NameError: name 'x' is not defined
x = 1	x = 1
while (x < 4):	x = 1
print("x = ", x)	x = 1
	**** endless loop ****
x = 1	x = 1
while (x < 4):	x = 2
print("x = ", x)	x = 3
x+=1	
x = 1	x = 1
while (x < 10):	x = 5
print("x = ", x)	x = 9
x+=4	
y = 1	x = 10 y = 1
for x in range (10,20,3):	x = 13 y = 1
print(" $x = ", x, "y = ", y$)	x = 16 y = 1
	x = 19 y = 1
for x in range (6,2,-1):	x = 6
print("x = ", x)	x = 5
	x = 4
	x = 3
y = 1	x = 6 y = 1
for x in range (6,2,-1):	x = 5 y = 4
print("x = ", x, "y = ", y)	x = 4y = 7
y +=3	x = 3 y = 10

```
Code
                                     Output
x = 1
                                     x = 1 y = 5
y = 5
                                     x = 2y = 8
while (x < 4 \text{ and } y <= 10):
   print("x = ", x, "y = ", y)
   x += 1
   y += 3
x = 3
                                     x = 3
again = True
                                     x = 6
while again:
                                     x = 9
   print("x = ", x)
   x += 3
   if x > 10:
       again = False
x = 4
                                     x = 4
while x % 2 == 0:
  print("x = ", x)
  x += 1
x = 2
                                     x 2
y = 2
                                     x 3
while (x < 10):
                                     x 4
   print ("x ", x)
                                     x 5
   if x < 5:
                                     x 7
       x += 1
                                     x 9
    else:
        x += 2
x = 0
                                     x = 0
y = 2
                                     x = 2
while (x <= 10):
                                     x = 4
   print("x = ", x)
                                     x = 6
   x += y
                                     x = 8
                                     x = 10
```