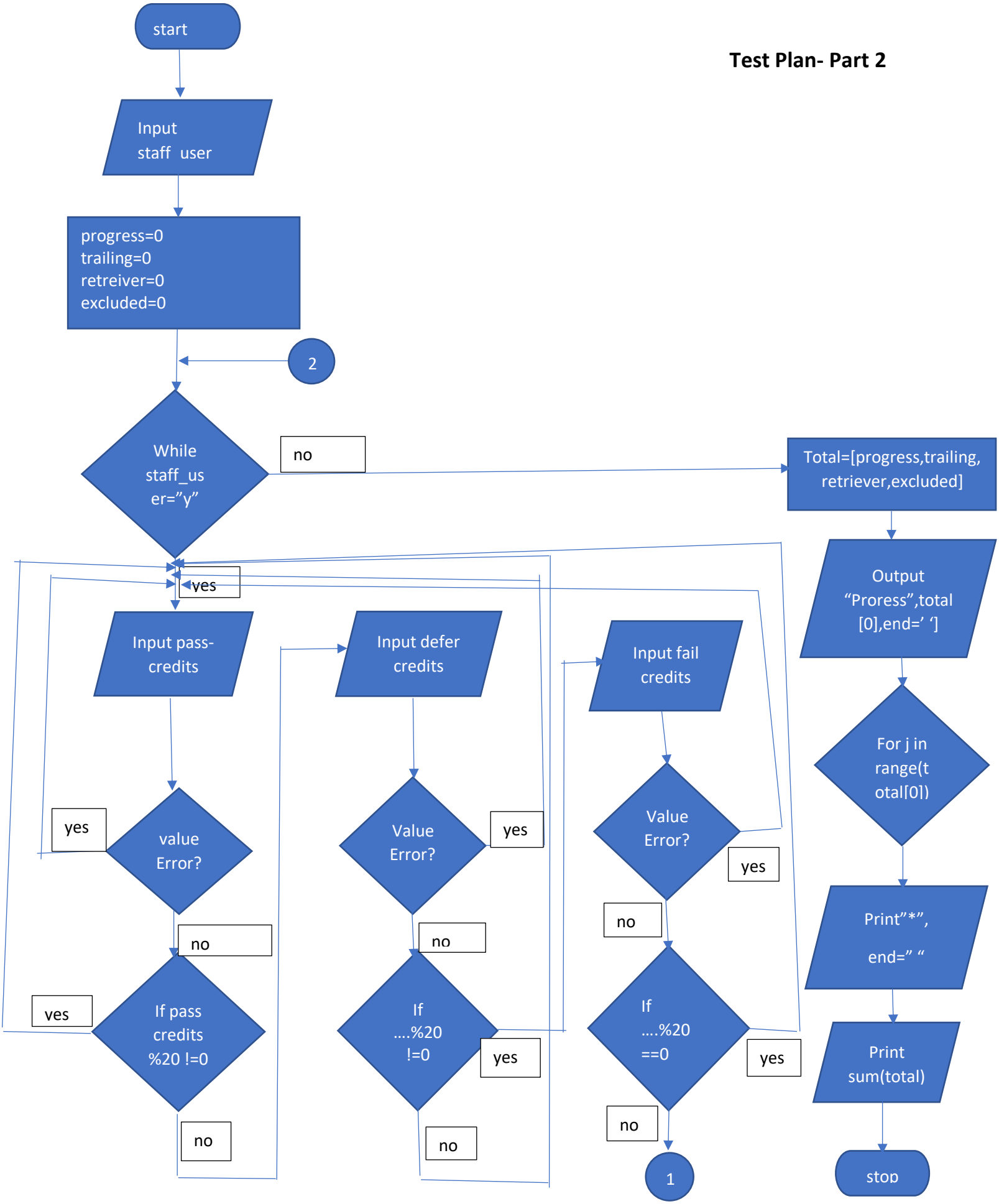
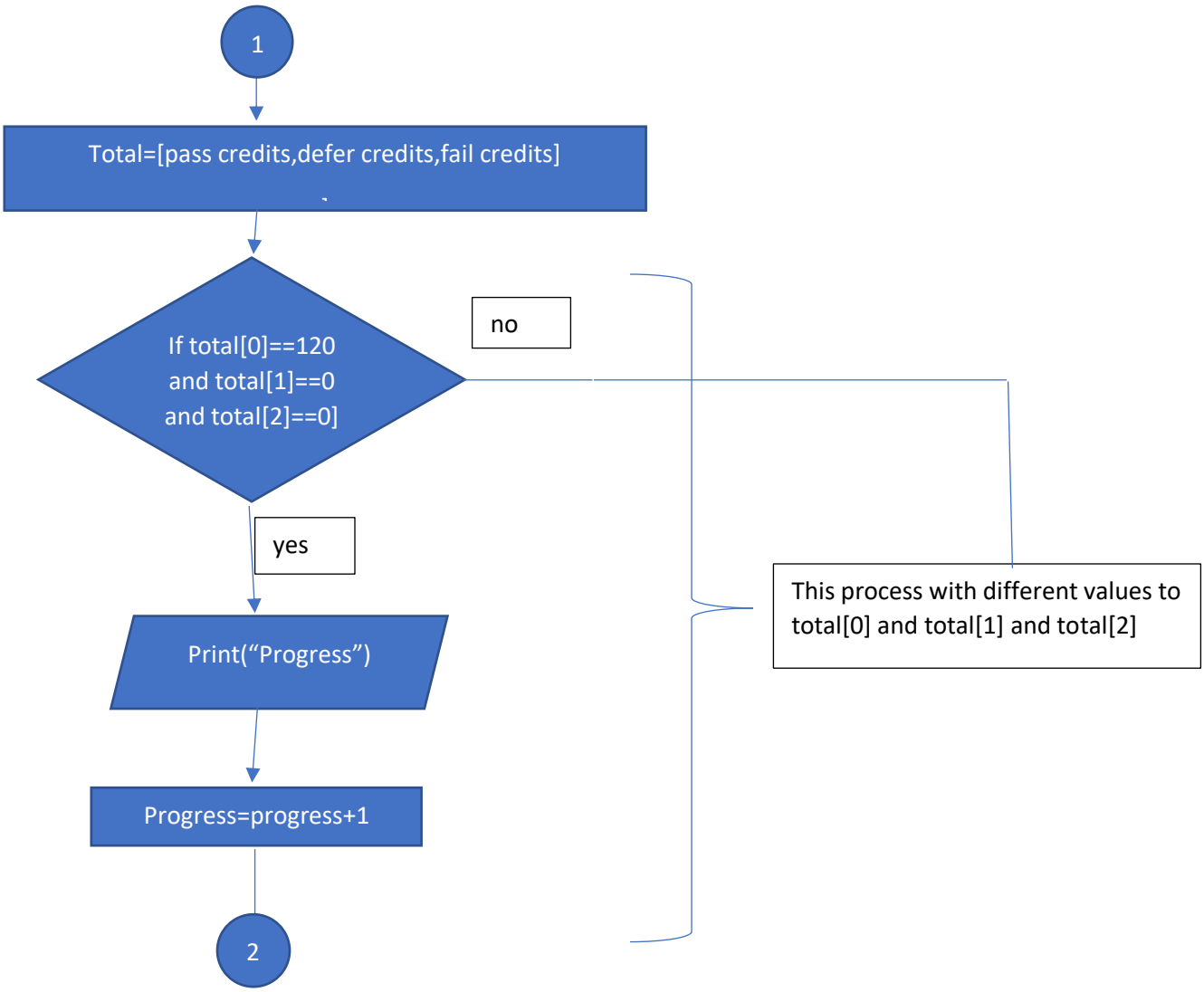
Test Plan- Part 2




1
Total=[pass credits,defer credits,fail credits]
If total[0]==120
and total[1]==0
and total[2]==0]
no
yes
This process with different values to total[0] and total[1] and total[2]
Print("Progress")
Progress=progress+1
2

Code

```
# I declare that my work contains no examples of misconduct, such as plagiarism, or collusion.

# Any code taken from other sources is referenced within my code solution.


# Student ID - IIT: 2018434

# Student ID - UOW: w1761916


# Date:  28.11.2019


staff_user=input("Do you want to check a progression outcome of a student?\n If yes, enter y\n If no, enter q\nEnter:")


progress=0

trailing=0

retrieve=0

excluded=0


while staff_user=="y":


   while True:     #this loop will run because the condition is already true.
      while True:     #this loop will run because the condition is already true.
         while True:     #this loop will run because the condition is already true.
            pass_credits=input("Number of credits at Pass:")
            try:
               pass_credits= int(pass_credits)
               break   #from this, process will come out from the specific loop
            except ValueError:
               print("Integers required")
               continue    #from this, continue the loop
```

```
    if pass_credits%20!=0:
        print("Range Error")
        continue    #from this, continue the loop
    break   #from this, process will come out from the specific loop

while True:
    while True:
        defer_credits=input("Number of credits at Defer:")
        try:
            defer_credits=int(defer_credits)
            break
        except ValueError:
            print("Integers required")
            continue
    if defer_credits%20!=0:
        print("Range Error")
        continue
    break

while True:
    while True:
        fail_credits=input("Number of credits at Fail:")
        try:
            fail_credits=int(fail_credits)
            break
        except ValueError:
            print("Integers required")
            continue
    if fail_credits%20!=0:
```

```
            print("Range Error")
            continue
        break

    total_credits=[pass_credits,defer_credits,fail_credits]
    if sum(total_credits)!=120:
        print("Total Incorrect")
        continue
    break

def progress():
    print("Progression Outcome = Progress ")
    global progresses
    progresses+=1

  def trailer():
    print("Progression Outcome = Progress – module trailer ")
    global trailing
    trailing+=1

  def retriever():
    print("Progression Outcome = Do not Progress – module retriever  ")
    global retrieve
    retrieve+=1

  def excluded():
    print("Progression Outcome = Exclude ")
    global exclude
    exclude+=1
```

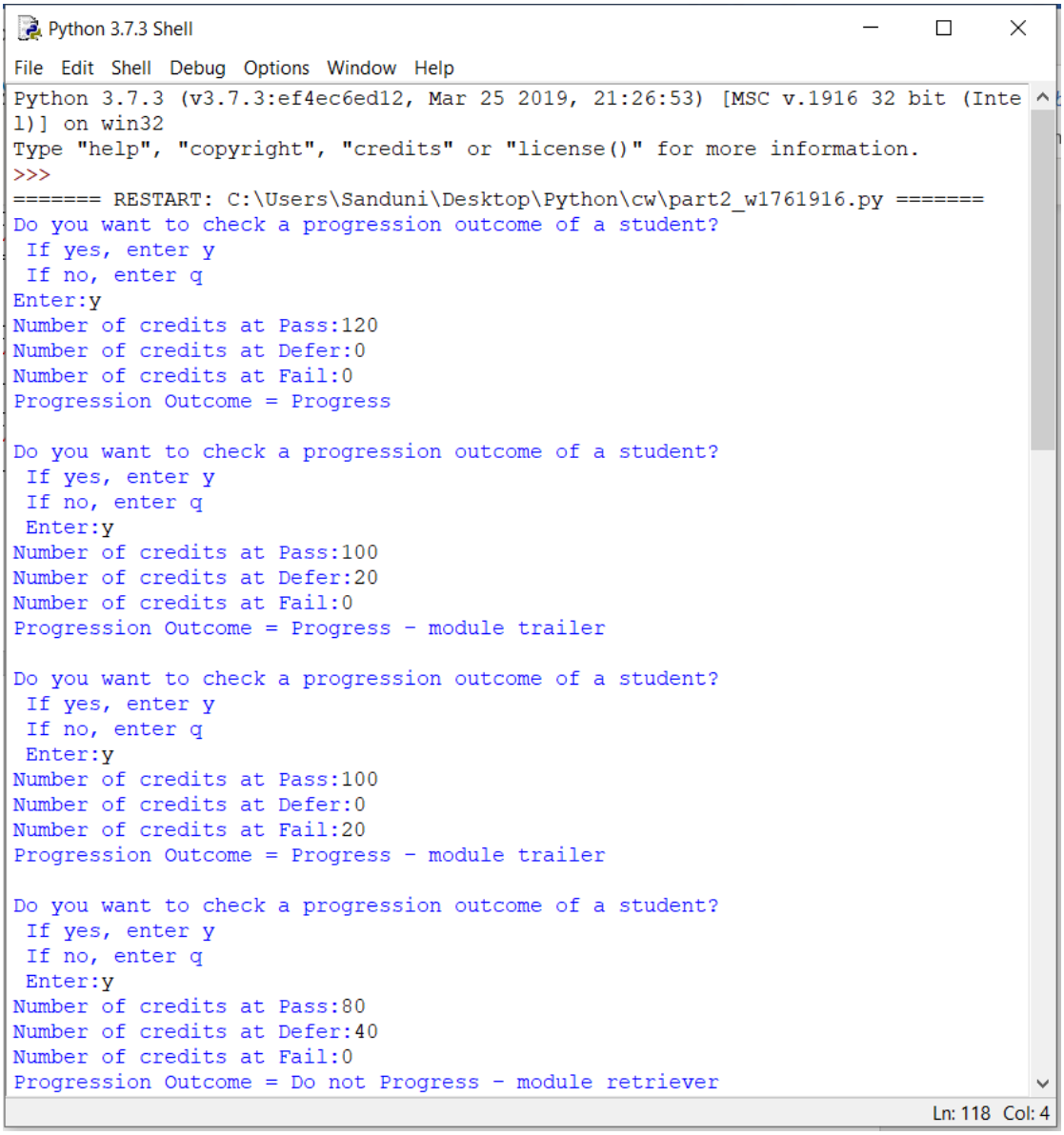
```
    if pass_credits==120 and defer_credits==0 and fail_credits==0:
        progress()

    elif pass_credits==100 and defer_credits==20 or defer_credits==0 and fail_credits==0 or
fail_credits==20:
        trailer()

    elif pass_credits==80 and defer_credits==40 and fail_credits==0:
        retriever()
    elif pass_credits==80 and defer_credits==20 and fail_credits==20:
        retriever()
    elif pass_credits==80 and defer_credits==0 and fail_credits==40:
        retriever()
    elif pass_credits==60 and defer_credits==60 and fail_credits==0:
        retriever()
    elif pass_credits==60 and defer_credits==40 and fail_credits==20:
        retriever()
    elif pass_credits==60 and defer_credits==20 and fail_credits==40:
        retriever()
    elif pass_credits==60 and defer_credits==0 and fail_credits==60:
        retriever()
    elif pass_credits==40 and defer_credits==80 and fail_credits==0:
        retriever()
    elif pass_credits==40 and defer_credits==60 and fail_credits==20:
        retriever()
    elif pass_credits==40 and defer_credits==40 and fail_credits==40:
```

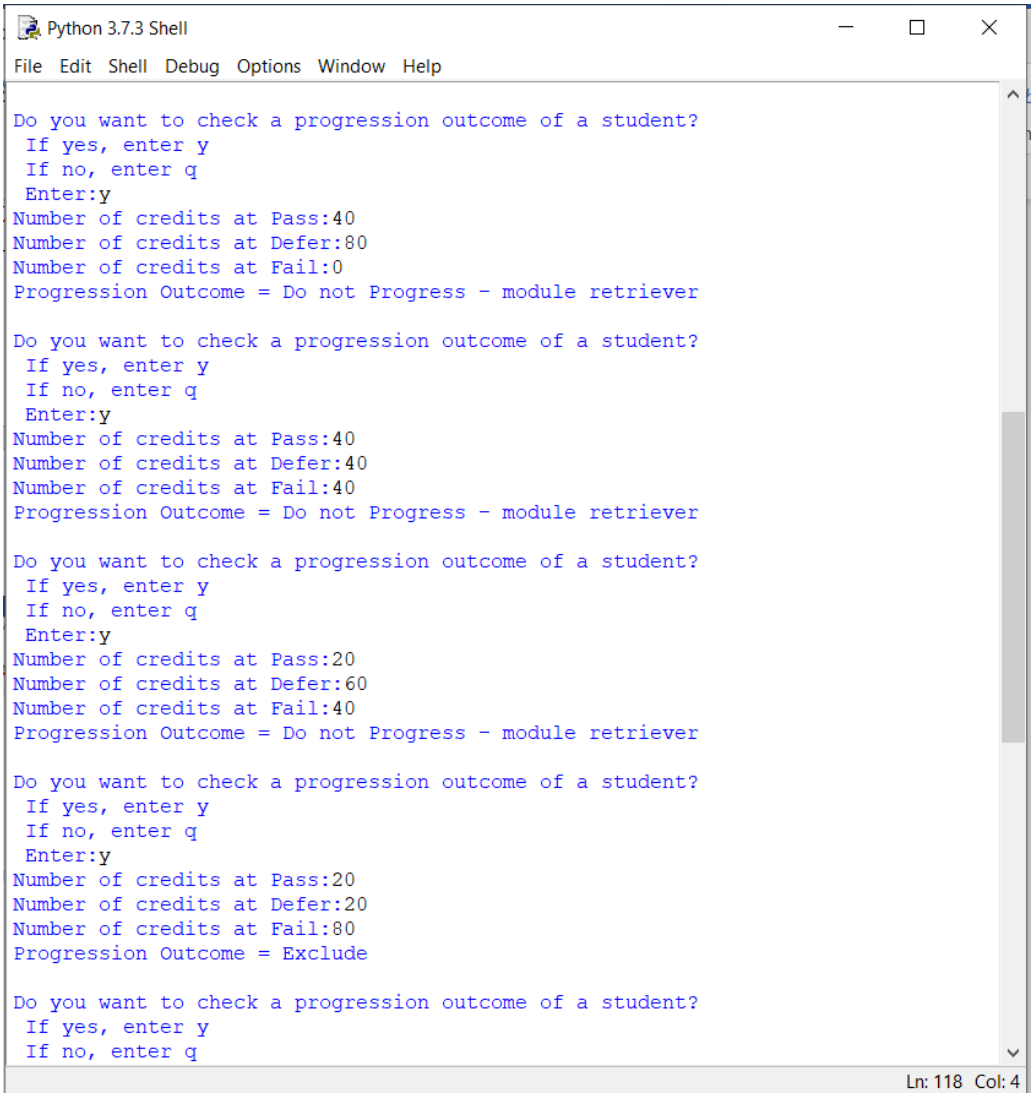
```
    retriever()
elif pass_credits==40 and defer_credits==20 and fail_credits==60:
    retriever()
elif pass_credits==40 and defer_credits==0 and fail_credits==80:
    excluded()
elif pass_credits==20 and defer_credits==100 and fail_credits==0:
    retriever()
elif pass_credits==20 and defer_credits==80 and fail_credits==20:
    retriever()
elif pass_credits==20 and defer_credits==60 and fail_credits==40:
    retriever()
elif pass_credits==20 and defer_credits==40 and fail_credits==60:
    retriever()
elif pass_credits==20 and defer_credits==20 and fail_credits==80:
    excluded()
elif pass_credits==20 and defer_credits==0 and fail_credits==100:
    excluded()
elif pass_credits==0 and defer_credits==120 and fail_credits==0:
    retriever()
elif pass_credits==0 and defer_credits==100 and fail_credits==20:
    retriever()
elif pass_credits==0 and defer_credits==80 and fail_credits==40:
    retriever()
elif pass_credits==0 and defer_credits==60 and fail_credits==60:
    retriever()
elif pass_credits==0 and defer_credits==40 and fail_credits==80:
    excluded()
elif pass_credits==0 and defer_credits==100 and fail_credits==20:
    excluded()
```

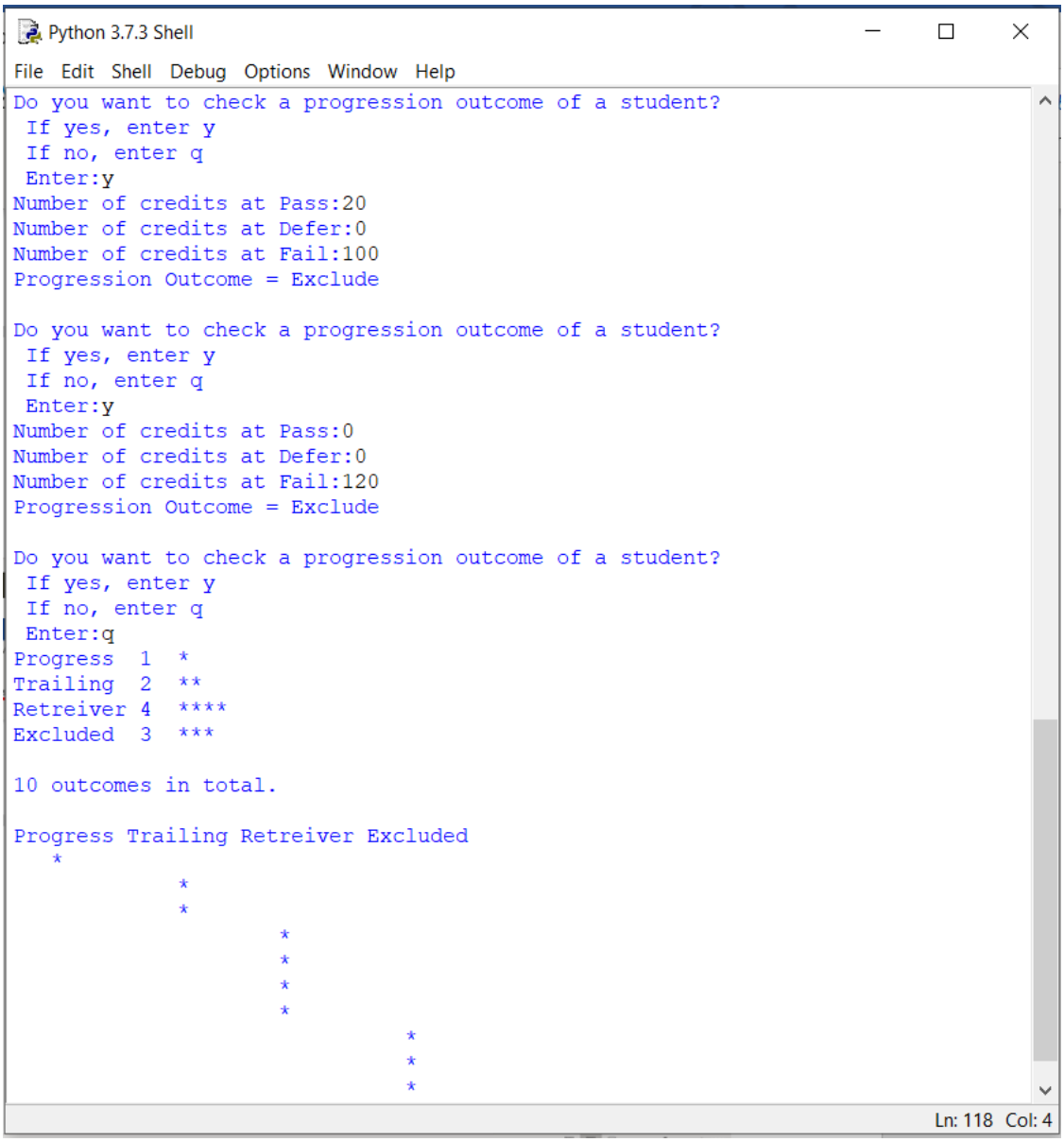
```
    elif pass_credits==0 and defer_credits==0 and fail_credits==120:
        excluded()


    print()
    staff_user=input("Do you want to check a progression outcome of a student?\n If yes, enter y\n If no, enter q\n Enter:")


else:
    total=[progresses,trailing,retrieve,exclude]


#Horizontal Histogram
    print("Progress ",total[0],end="  ")
    for j in range(total[0]):
        print("*",end="")
    print()


    print("Trailing ",total[1],end="  ")
    for j in range(total[1]):
        print("*",end="")
    print()


    print("Retreiver",total[2],end="  ")
    for j in range(total[2]):
        print("*",end="")
    print()


    print("Excluded ",total[3],end="  ")
    for j in range(total[3]):
        print("*",end="")
```

```
    print()


    print()


    print(sum(total),"outcomes in total.")
    print()

#vertically histogram
    print("Progress",end=" ");print("Trailing",end=" ");print("Retreiver",end=" ");print("Excluded")
for j in range(total[0]):
        print("   *")
        print(end="")
    print(end="            ")

    for j in range(total[1]):
        print("*")
        print(end="            ")
    print(end="       ")

    for j in range(total[2]):
        print("*")
        print(end="                  ")
    print(end="         ")

    for j in range(total[3]):
        print("*")
        print(end="                           ")
```

Student Name: S. R. B. N. Sanduni Bhagya			**Student ID: 2018434 / w1761916**	
Test No.	Test Input	Expected Result	Actual Result (State if not attempted)	Pass/Fail
1	Enter:y Pass = 120	'Progress' is displayed	'Progress' is displayed	Pass
2	Enter:y Pass = 100 Defer = 20	'Progress – module trailer' is displayed	'Progress – module trailer' is displayed	Pass
3	Enter:y Pass = 100 Fail = 20	'Progress – module trailer' is displayed	'Progress – module trailer' is displayed	Pass
4	Enter:y Pass = 80 Defer = 40 Fail = 0	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
5	Enter:y Pass = 40 Defer = 80 Fail = 0	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
6	Enter:y Pass = 40 Defer = 40 Fail = 40	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
7	Enter:y Pass = 20 Defer = 60 Fail = 40	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
8	Enter:y Pass = 20 Defer = 20 Fail = 80	'Exclude' is displayed	'Exclude' is displayed	Pass
9	Enter:y Pass = 20 Fail = 100	'Exclude' is displayed	'Exclude' is displayed	Pass
10	Enter:y Fail = 120	'Exclude' is displayed	'Exclude' is displayed	Pass
11	Enter:q	Histogram Displayed	Histogram Displayed	Pass


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Inte
l)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part2_w1761916.py =======
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:120
Number of credits at Defer:0
Number of credits at Fail:0
Progression Outcome = Progress
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:100
Number of credits at Defer:20
Number of credits at Fail:0
Progression Outcome = Progress - module trailer
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:100
Number of credits at Defer:0
Number of credits at Fail:20
Progression Outcome = Progress - module trailer
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:80
Number of credits at Defer:40
Number of credits at Fail:0
Progression Outcome = Do not Progress - module retriever
Ln: 118 Col: 4


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:40
Number of credits at Defer:80
Number of credits at Fail:0
Progression Outcome = Do not Progress - module retriever
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:40
Number of credits at Defer:40
Number of credits at Fail:40
Progression Outcome = Do not Progress - module retriever
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:20
Number of credits at Defer:60
Number of credits at Fail:40
Progression Outcome = Do not Progress - module retriever
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:20
Number of credits at Defer:20
Number of credits at Fail:80
Progression Outcome = Exclude
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Ln: 118 Col: 4


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:20
Number of credits at Defer:0
Number of credits at Fail:100
Progression Outcome = Exclude
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:y
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:120
Progression Outcome = Exclude
Do you want to check a progression outcome of a student?
If yes, enter y
If no, enter q
Enter:q
Progress 1 *
Trailing 2 **
Retreiver 4 ****
Excluded 3 ***
10 outcomes in total.
Progress Trailing Retreiver Excluded
Ln: 118 Col: 4