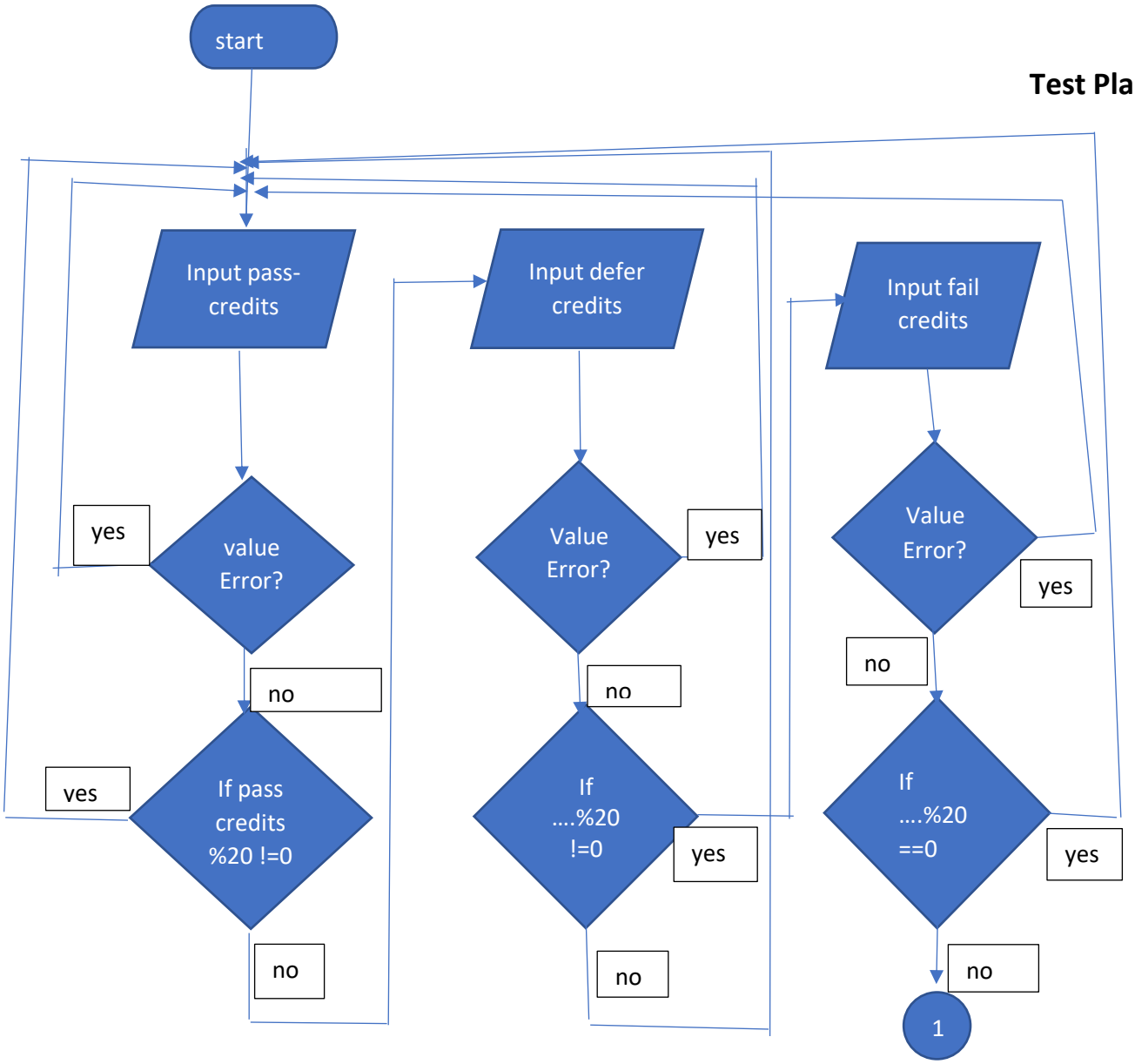
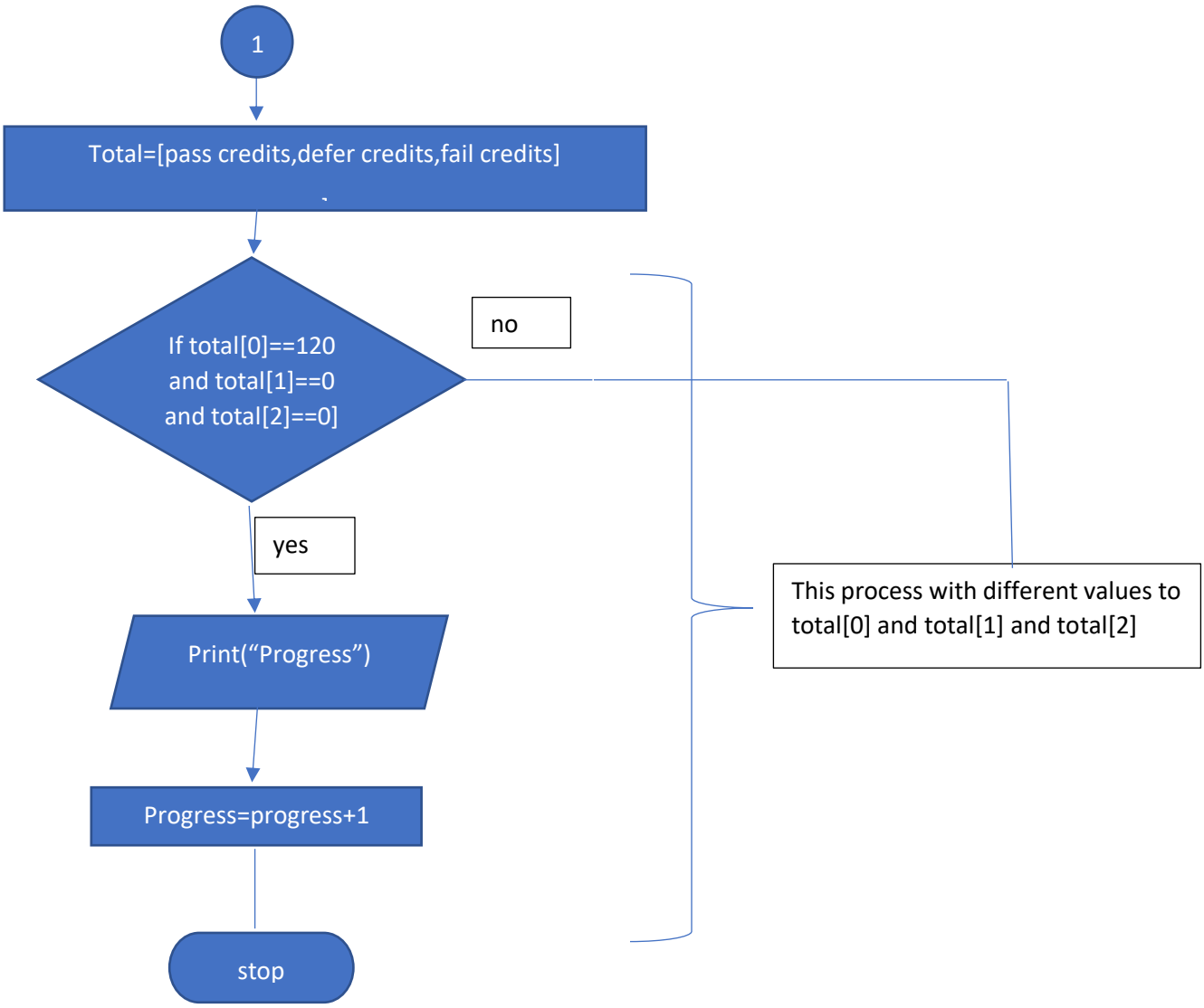
Test Plan- Part1




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
stop

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

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
```

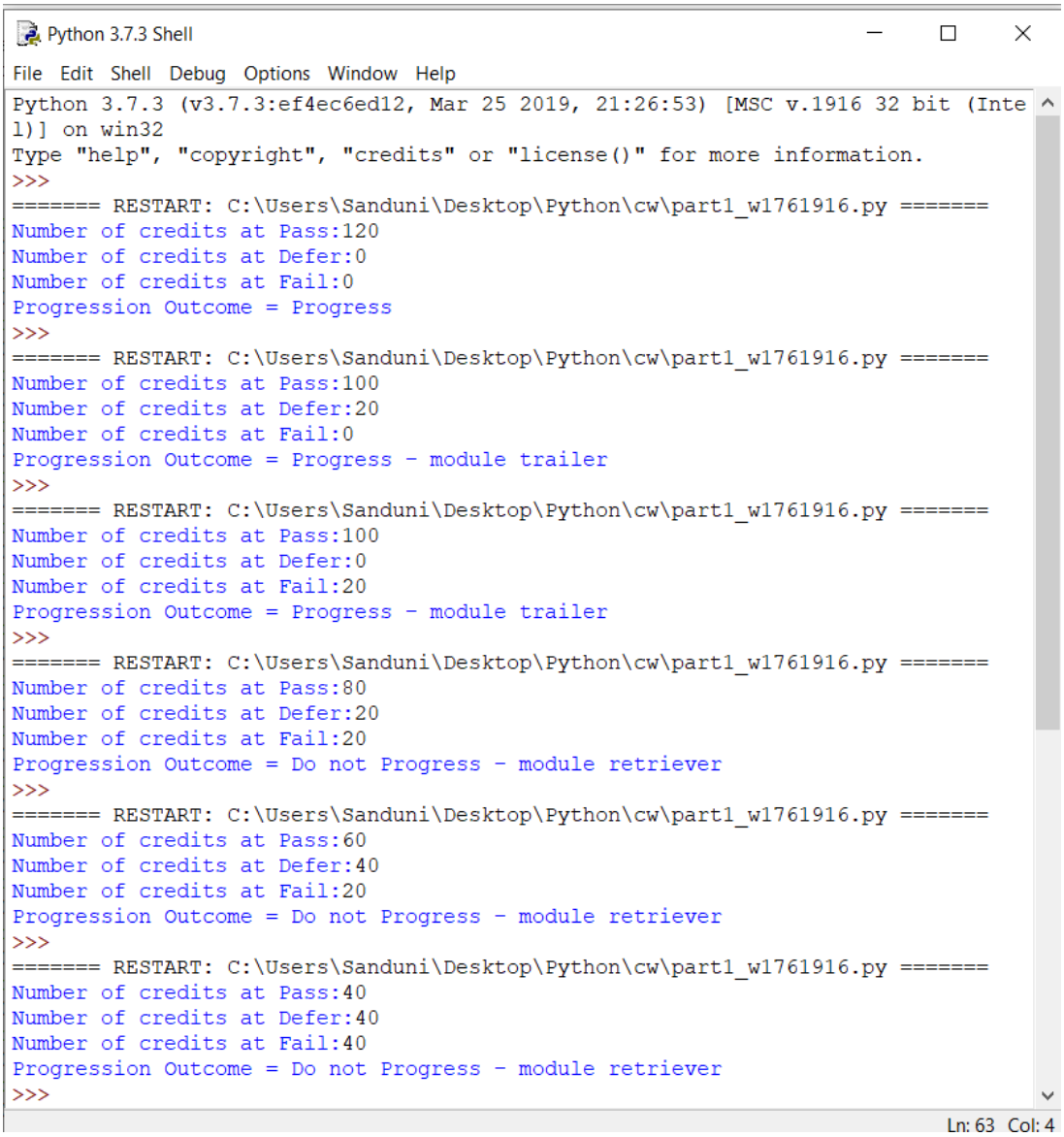
```
def progress():
    print("Progression Outcome = Progress ")

def trailer():
    print("Progression Outcome = Progress – module trailer ")

def retriever():
    print("Progression Outcome = Do not Progress – module retriever  ")

def excluded():
    print("Progression Outcome = Exclude ")

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()
```

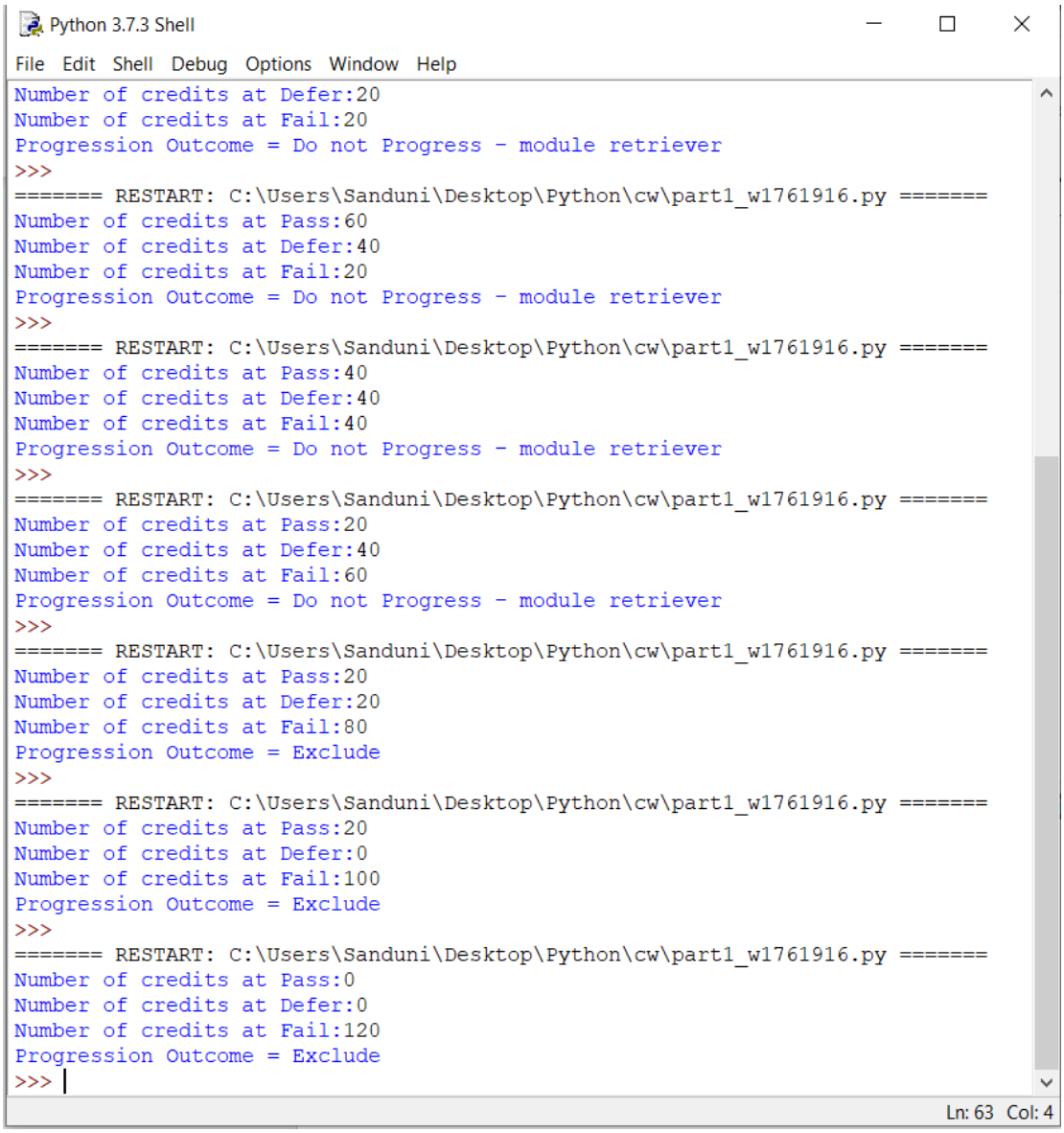
```
elif pass_credits==60 and defer_credits==20 and fail_credits==40:
    retriever()
elif pass_credits==60 and defer_credits==0 and fail_credits==60:
    retriever()
elif pass_credits==40 and defer_credits==80 and fail_credits==0:
    retriever()
elif pass_credits==40 and defer_credits==60 and fail_credits==20: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

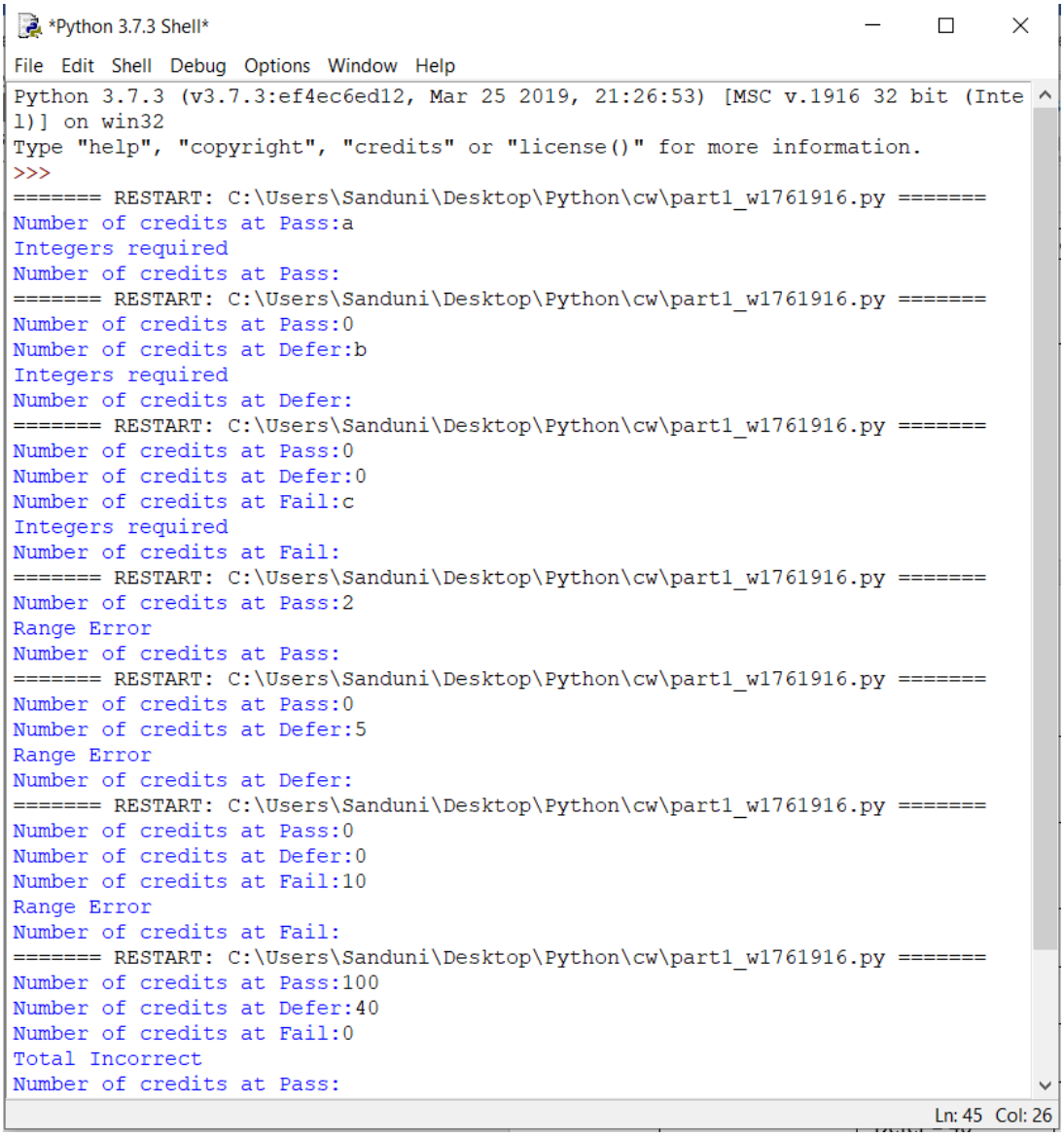
```
    retriever()
elif pass_credits==0 and defer_credits==80 and fail_credits==40:
    retriever()
elif pass_credits==0 and defer_credits==60 and fail_credits==60:
    retriever()
elif pass_credits==0 and defer_credits==40 and fail_credits==80:
    excluded()
elif pass_credits==0 and defer_credits==100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

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	Pass = 120	'Progress' is displayed	'Progress' is displayed	Pass
2	Pass = 100 Defer = 20	'Progress – module trailer' is displayed	'Progress – module trailer' is displayed	Pass
3	Pass = 100 Fail = 20	'Progress – module trailer' is displayed	'Progress – module trailer' is displayed	Pass
4	Pass = 80 Defer = 20 Fail = 20	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
5	Pass = 60 Defer = 40 Fail = 20	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass

6	Pass = 40 Defer = 40 Fail = 40	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
7	Pass = 20 Defer = 40 Fail = 60	'Do not Progress – module retriever' is displayed	'Do not Progress – module retriever' is displayed	Pass
8	Pass = 20 Defer = 20 Fail = 80	'Exclude' is displayed	'Exclude' is displayed	Pass
9	Pass = 20 Fail = 100	'Exclude' is displayed	'Exclude' is displayed	Pass
10	Fail = 120	'Exclude' is displayed	'Exclude' is displayed	Pass
Checking input data type, credit range and credit total:				
11	Pass = a	'Integers required' displayed	'Integers required' displayed	Pass
12	Defer = b	'Integers required' displayed	'Integers required' displayed	Pass
13	Fail = c	'Integers required' displayed	'Integers required' displayed	Pass
14	Pass = 2	'Range error' is displayed	'Range error' is displayed	Pass
15	Defer = 5	'Range error' is displayed	'Range error' is displayed	Pass
16	Fail = 10	'Range error' is displayed	'Range error' is displayed	Pass
17	Pass = 100 Defer = 40	'Total incorrect' is displayed	'Total incorrect' is displayed	Pass
18	Pass = 60 Fail = 40	'Total incorrect' is displayed	'Total incorrect' is 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 (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:120
Number of credits at Defer:0
Number of credits at Fail:0
Progression Outcome = Progress
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:100
Number of credits at Defer:20
Number of credits at Fail:0
Progression Outcome = Progress - module trailer
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:100
Number of credits at Defer:0
Number of credits at Fail:20
Progression Outcome = Progress - module trailer
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:80
Number of credits at Defer:20
Number of credits at Fail:20
Progression Outcome = Do not Progress - module retriever
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:60
Number of credits at Defer:40
Number of credits at Fail:20
Progression Outcome = Do not Progress - module retriever
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
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
>>>
Ln: 63 Col: 4


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Number of credits at Defer:20
Number of credits at Fail:20
Progression Outcome = Do not Progress - module retriever
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:60
Number of credits at Defer:40
Number of credits at Fail:20
Progression Outcome = Do not Progress - module retriever
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
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
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:20
Number of credits at Defer:40
Number of credits at Fail:60
Progression Outcome = Do not Progress - module retriever
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:20
Number of credits at Defer:20
Number of credits at Fail:80
Progression Outcome = Exclude
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:20
Number of credits at Defer:0
Number of credits at Fail:100
Progression Outcome = Exclude
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:120
Progression Outcome = Exclude
>>>
Ln: 63 Col: 4


Python 3.7.3 Shell
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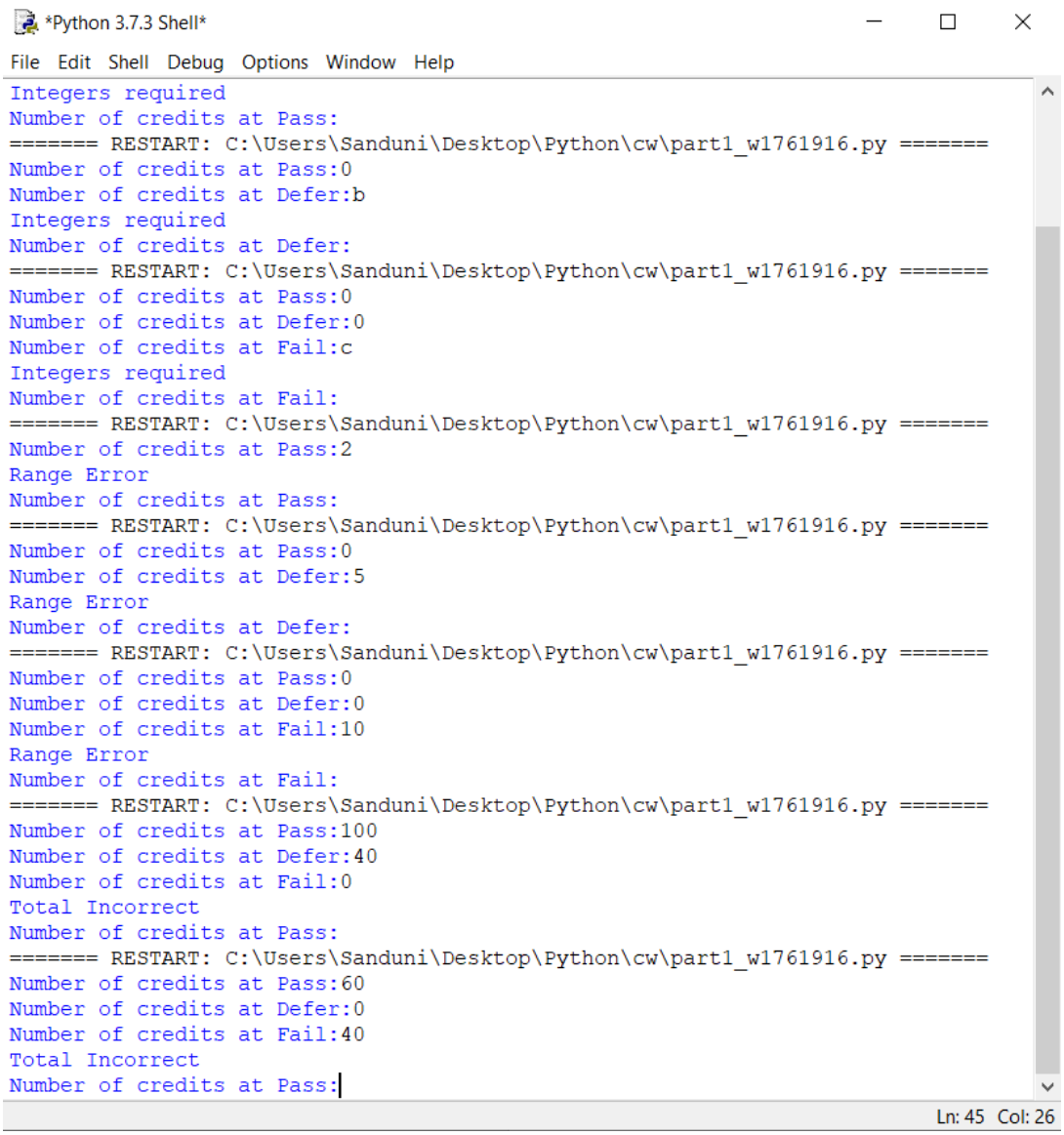
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:a
Integers required
Number of credits at Pass:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:b
Integers required
Number of credits at Defer:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:c
Integers required
Number of credits at Fail:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:2
Range Error
Number of credits at Pass:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:5
Range Error
Number of credits at Defer:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:10
Range Error
Number of credits at Fail:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:100
Number of credits at Defer:40
Number of credits at Fail:0
Total Incorrect
Number of credits at Pass:
Ln: 45 Col: 26


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Integers required
Number of credits at Pass:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:b
Integers required
Number of credits at Defer:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:c
Integers required
Number of credits at Fail:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:2
Range Error
Number of credits at Pass:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:5
Range Error
Number of credits at Defer:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:0
Number of credits at Defer:0
Number of credits at Fail:10
Range Error
Number of credits at Fail:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:100
Number of credits at Defer:40
Number of credits at Fail:0
Total Incorrect
Number of credits at Pass:
======= RESTART: C:\Users\Sanduni\Desktop\Python\cw\part1_w1761916.py =======
Number of credits at Pass:60
Number of credits at Defer:0
Number of credits at Fail:40
Total Incorrect
Number of credits at Pass:
Ln: 45 Col: 26