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GRADE SEVEN REVISION
UNIT 3 & 4

Nour Mohammad Ayman Mansour

Design and Technology
Grade 7
Revision of Unit 3 And Unit 4

Data Types:

1. What is the data type of each data (String, Integer or Float)?

A. 12345 ->
B. “123”->
C. “Hello” ->
D. 12.3 ->
E. “5.7”->
F. “12 Street”->

2. Which data can you convert or change to Integer?

A. 12345 ->
B. “123”->
C. “Hello” ->
D. 12.3 ->
E. “5.7”->
F. “12 Street”->

3. Which data can you convert to float?

A. 12345 ->
B. “123”->
C. “Hello” ->
D. 12.3 ->
E. “5.7”->
F. “12 Street”->

4. Which data can you convert to String?

A. 12345 ->
B. “123”->
C. “Hello” ->
D. 12.3 ->
E. “5.7”->
F. “12 Street”->

5. Complete the code to convert the integer to float:

```
Number=5
Number = _____(Number)
print(_____)
```

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6. Complete the code to convert the integer to string:

```
Number=5
Number = _____(Number)
print(_____)
```

7. Complete the code to convert the string to integer:

```
Number=”123”
Number = _____(Number)
print(_____)
```

8. Complete the code to add 5 and 7:

```
Answer= _____ +_____
print(_____)
```

9. Complete the code to subtract 15 and 5:

```
Answer= _____ -_____
print(_____)
```

10. Complete the code to multiply 5 and 7:

```
Answer= _____ *_____
print(_____)
```

11. Complete the code to divide 15 and 3:

```
Answer= _____ /_____
print(_____)
```

12. Complete the code to add the variable number and 8:

```
Number=3
Answer= _____ +_____
print(_____)
```

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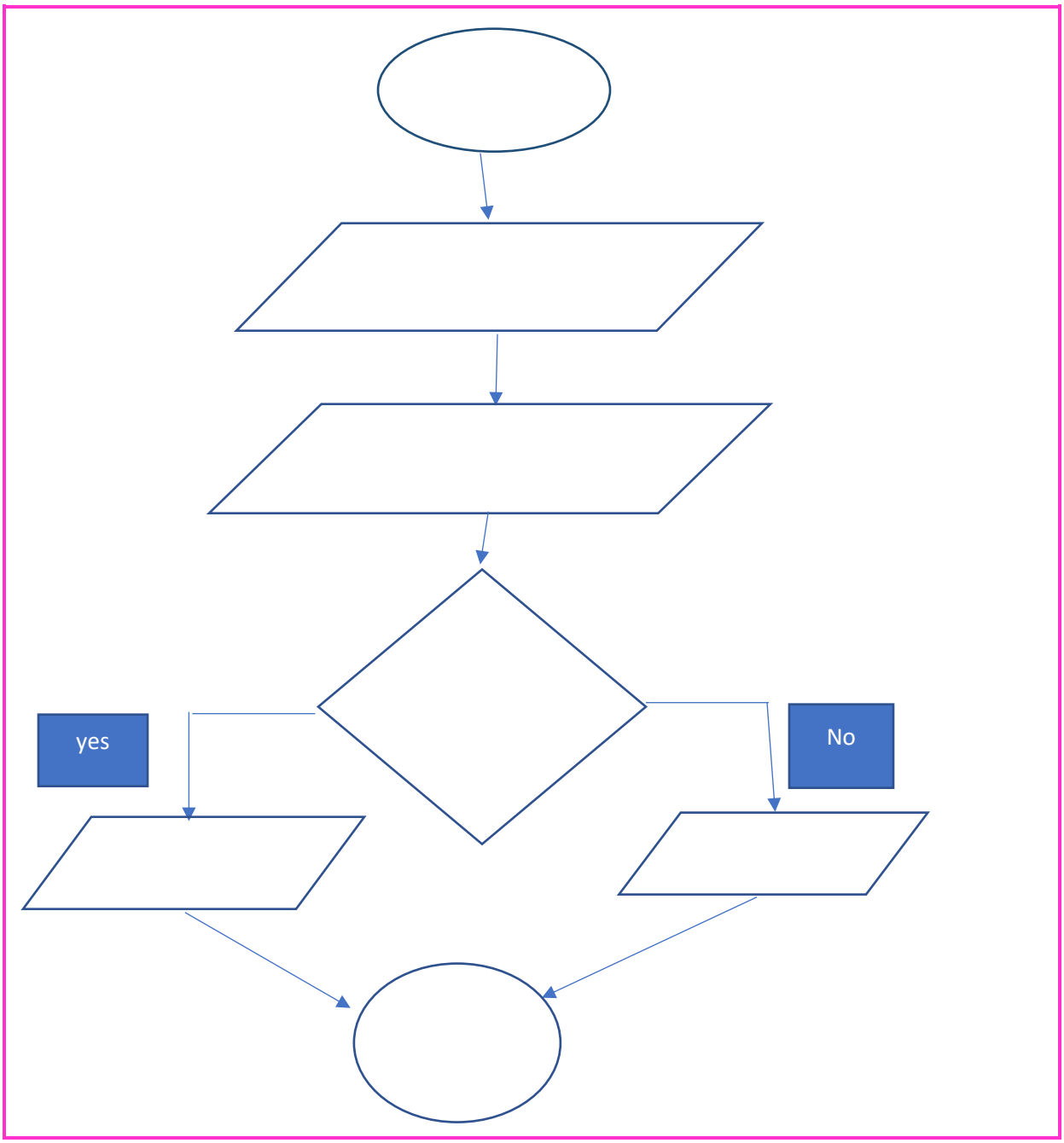
Conditional Statement

Complete the flowchart to ask the user to enter the ages of Ahmad and Noura then compare them and print who is older?

Note: You have two numbers so you will need two variables to store the ages.



Now complete the code:

```
AhmedAge= input(" Enter the age of Ahmed")
NouraAge = ____________________________

#Now you should convert the variables to integers

AhmedAge= int(_______)
NouraAge= ____ (NouraAge)


#You will compare the ages using the if and elif and else.

if(AhmedAge < __________):
    print(" Noura is Older ")
elif(_____  >  ___):
    print("Ahmed is Older")
else:
   print("____________")
```

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Loops:

We have two types for and while:

1.For loop

Start means the first number to start counting from:أول عدد نبدأ العد منه

End+1: means the last number added to 1: العدد الاخير ويجب أن نضيف 1 اليه

Step: is how much your step counting is: .مقدار الزيادة في كل مرة

```
For count in range(start, end+1 , step):
    Print(count)
```

Do these questions:

1. Complete the code to count from 2 to 200 in steps of 8.

```
for count in range ( _____,  _____,_____ ):
print (count)
```

2. Complete the code to count from 200 to 20 in steps of -8.

```
for count in range ( _____,  _____,_____ ):
print (count)
```

3. Complete this code to ask the user to enter the start and end number to count in steps of 1.

```
start=input("enter your start number")
end=_____
#you should change there types to integer
start=int(_____)
end=_____

For count in range (Start, _____, 1):
    print (_____)
```

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2. while loop

Start means the first number to start counting from:أول عدد نبدأ العد منه

End+1: means the last number added to 1: العدد الاخير ويجب أن نضيف 1 اليه

Step: is how much your step counting is: .مقدار الزيادة في كل مرة

```
count= start
while (count < end+1):
        print(count)
      count=count + step
```

Do these questions:

1. Complete the code to count from 2 to 200 in steps of 8.

```
count =_____
while(count < _____):
    print(       )
    count = count+_____
```

2. Complete the code down from 60 to 1.

```
count =_____
while(count < _____):
    print(       )
    count = count+_____
```

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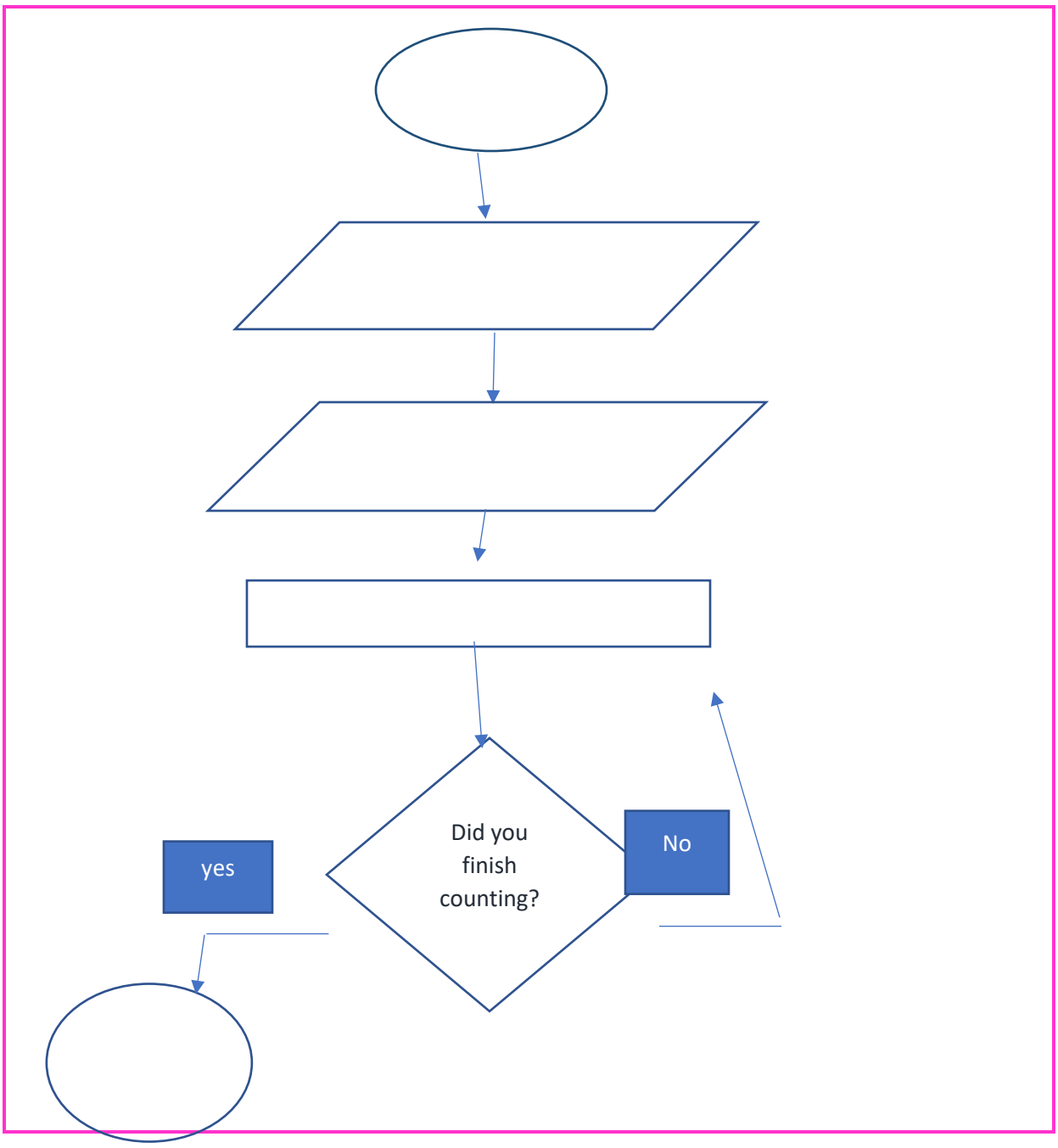
3. Complete the flowchart to ask the user to input or enter the start and end to count in steps of 1



4. Complete this code to ask the user to enter the start and end number to count in steps of 1.

```
start=input("enter your start number")
end=_____________________________

#you should change there types to integer
start=int(_____)
end=_________

count =_____
while(count < _____):
    print(        )
    count = count+_____
```

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THE ANSWERS:

- Data Types:
- What is the data type of each data (String, Integer or Float)?
- 12345 -> INTEGER
- “123”-> STRING
- “Hello” -> STRING
- 12.3 -> FLOAT
- “5.7”-> STRING
- “12 Street”-> STRING
- Which data can you convert or change to Integer?
- 12345 -> YES
- “123”-> YES
- “Hello” -> NO , Because its letters.
- 12.3 -> yes
- “5.7”-> yes
- “12 Street”-> No
- Which data can you convert to float?
- 12345 -> yes
- “123”-> yes
- “Hello” -> no
- 12.3 -> yes
- “5.7”-> yes
- “12 Street”-> no
- Which data can you convert to String?
- 12345 -> yes
- “123”-> yes
- “Hello” -> yes
- 12.3 -> yes
- “5.7”-> yes
- “12 Street”-> yes

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- Complete the code to convert the integer to float:

```
Number=5
Number = float (Number)
print(Number)
```

- Complete the code to convert the integer to string:

```
Number=5
Number = str(Number)
Print(Number)
```

- Complete the code to convert the string to integer:

```
Number=”123”
Number = int(Number)
print(Number)
```

- Complete the code to add 5 and 7:

```
Answer= 5 +7
print(Answer)
```

- Complete the code to subtract 15 and 5:

```
Answer=15 -5
print(Answer)
```

- Complete the code to multiply 5 and 7:

```
Answer= 5 *7
print(Answer)
```

- Complete the code to divide 15 and 3:

```
Answer= 15/3
print(Answer)
```

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- Complete the code to add the variable number and 8:

```
number=3
Answer= number +8
print(Answer)
```

Conditional Statement

- Complete the flowchart to ask the user to enter the ages of Ahmad and Noura then compare them
- and print who is older?

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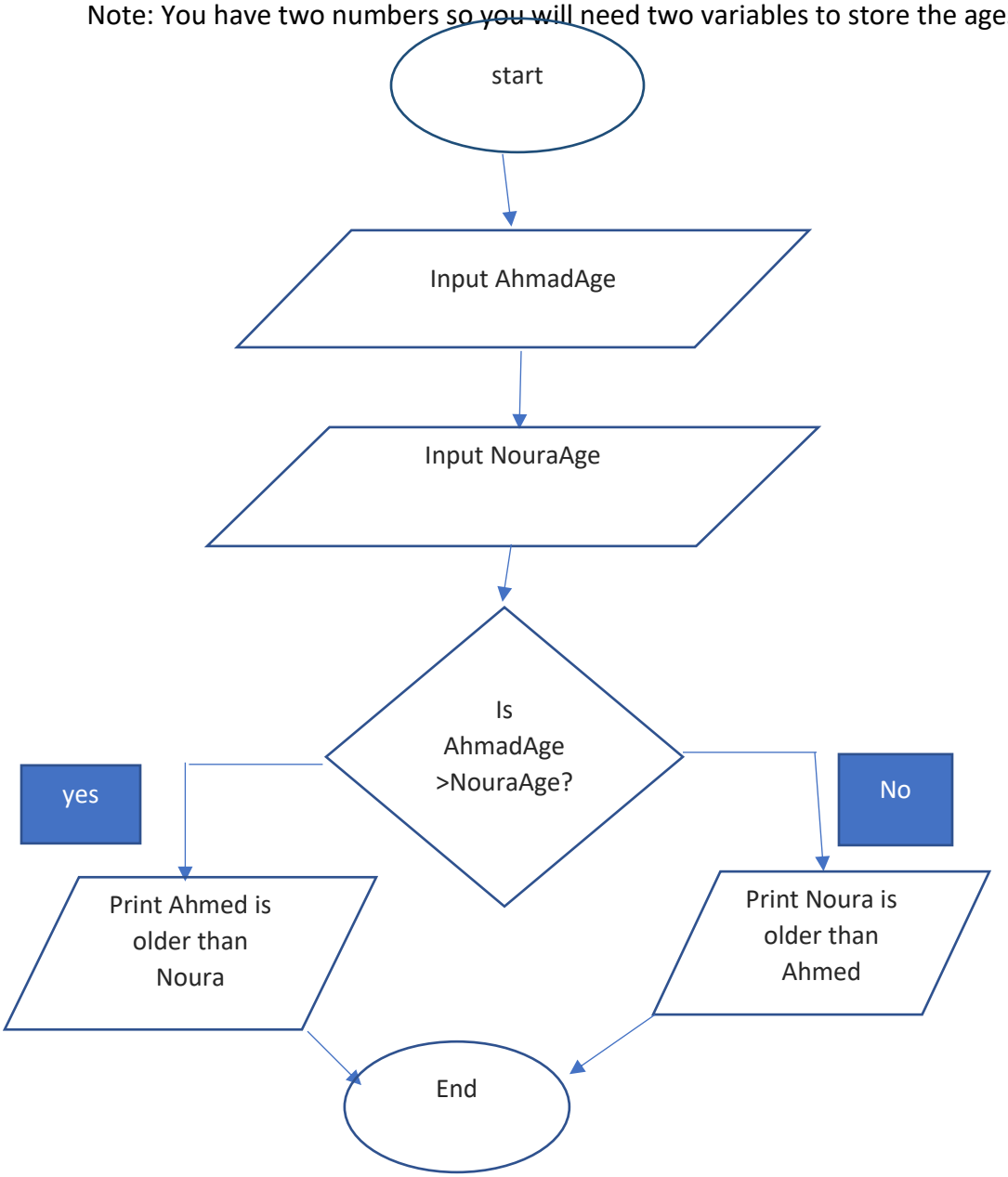
Note: You have two numbers so you will need two variables to store the ages.



- Now complete the code:

```
AhmedAge= input(" Enter the age of Ahmed")
NouraAge = input(" Enter the age of Noura")

#Now you should convert the variables to integers

AhmedAge= int(AhmedAge)
NouraAge= int (NouraAge)


#You will compare the ages using the if and elif and else.

if(AhmedAge < NouraAge):
        print(" Noura is Older ")

elif(AhmedAge > NouraAge):
        print("Ahmed is Older")

else:
        print("Ahmed is the same age as Noura")
```

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- ## Loops:

- ## Do these questions:

- Complete the code to count from 2 to 200 in steps of 8.

```
for count in range (2, 201, 8 ):
print (count)
```

- Complete the code to count from 200 to 20 in steps of -8.

```
for count in range 200,20,8 ):
print (count)
```

- Complete this code to ask the user to enter the start and end number to count in steps of 1.

```
start=input("enter your start number")
end= input("enter your end number")

#you should change there types to integer
start=int(start)
end=int(end)

for count in range (start, end, 1):
print (count)
```

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- Do these questions:

- Complete the code to count from 2 to 200 in steps of 8.

```
count =2
while(count <201):
    print(  count    )
    count = count+8
```

- Complete the code down from 60 to 1.

```
count =60
while(count <1):
print(  count    )
count = count+ -1
```

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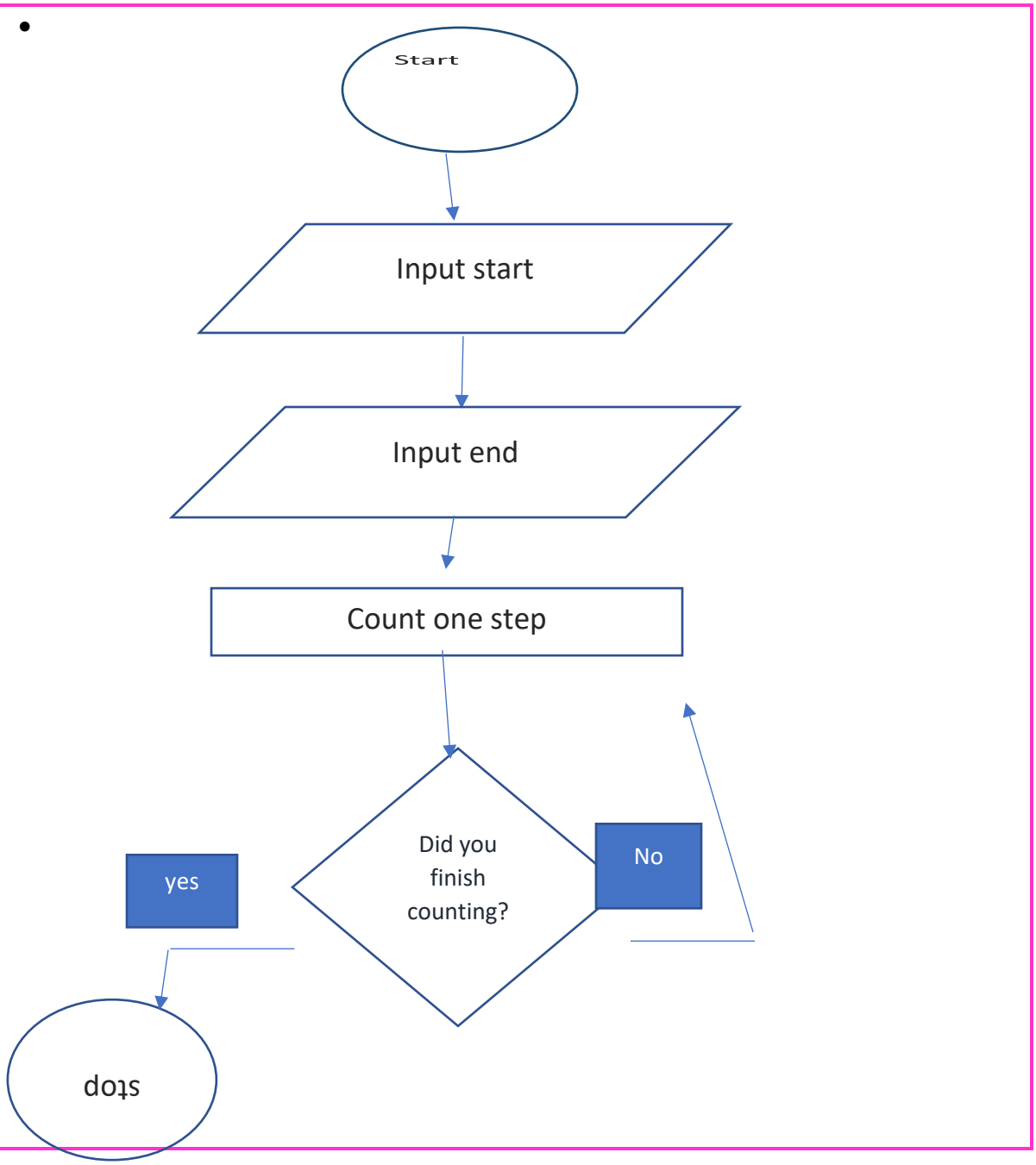
Complete the flowchart to ask the user to input or enter the start and end to count in steps of 1

- 

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- Complete this code to ask the user to enter the start and end number to count in steps of 1.

```
start=input("enter your start number")
end= input("enter your end number")

#you should change there types to integer
start=int(start)
end=int(end)

count =start
while(count <end):
print(        count )
count = count+1
```