

- I am learning how use to use conditional statements and loops in a program

IF and ELSE – Conditional Statements

Practise Task:

Write this program in Python:

```
print ("***** CALCULATOR*****")

number1=int(input("Enter your first number:"))
number2=int(input("Enter your second number:"))
operator=input ("Do you want to +, -, * or /? ")

if operator == "+":
    answer = number1 + number2
elif operator == "-":
    answer = number1 - number2

print ( "answer = " + str(answer))
```

The key words **int** and **str** tell the variable what is being stored in the variable.

How does this work?

Now try this:

- Write a program that asks the user how long, on average, they spend on a computer per day.
- If the user spends less than 2 hours per day, the program needs to say, "that seems reasonable". ELSE, the program needs to say, "Get a life".
- Extend this program to have an extra statement:
IF it is less than 2 hours it says "that seems reasonable"
ELSE IF it is less than 4 hours per day it says "Do you have time for anything else?"
ELSE, the program says, "You need to get some fresh air once in a while"

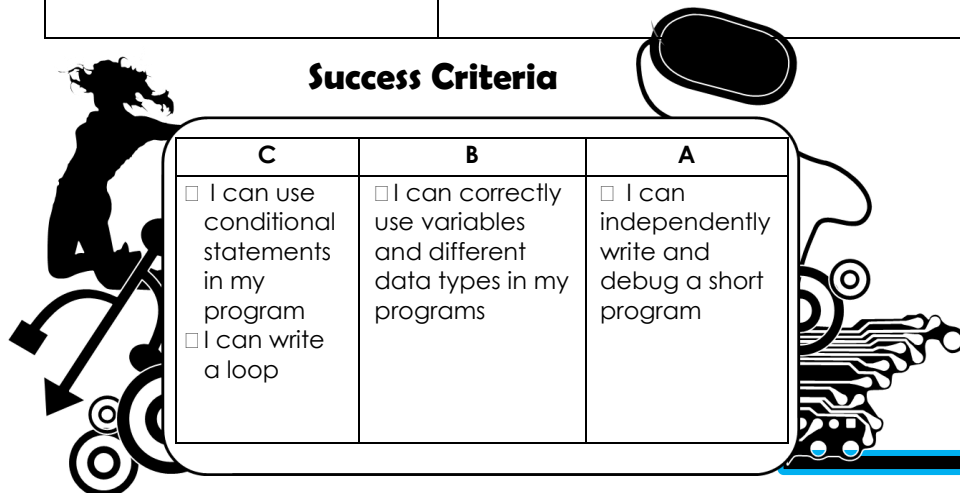
Hint: ELSE IF becomes ELIF in Python

Self Assessment:

Self Assessment:	
Completed Successfully?	
Did you encounter any errors? How did you solve them?	
What did you find difficult?	

Success Criteria

C	B	A
<input type="checkbox"/> I can use conditional statements in my program <input type="checkbox"/> I can write a loop	<input type="checkbox"/> I can correctly use variables and different data types in my programs	<input type="checkbox"/> I can independently write and debug a short program



Loops

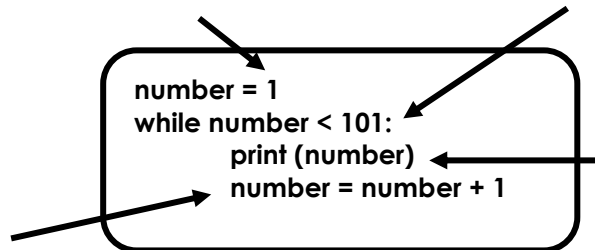
Practise Task:

Write this program in Python:

```
number = 1
while number < 101:
    print (number)
    number = number + 1
```

Computers are great at repetitive tasks. They are also very fast at doing them. We can tell them to do something over again by using loops. A loop runs some code while a condition is true and stops when it is false

How does this work?



Now try this:

- Write a program using a loop that will display the sentence "I am learning to code" 50 times.
- Can you improve this program to allow the user to enter how many times they want to print out that line

Self Assessment:

Self Assessment:	
Completed Successfully?	
Did you encounter any errors? How did you solve them?	
What did you find difficult?	

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Quick Quiz

What is a loop?

What are the 2 different data types for variables introduced this lesson?