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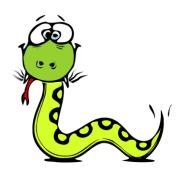
Python Level 1 – Introduction to Python Input/Output

Skill 1: Printing - Part A

```
print("Welcome to Python!")
```

Try:

```
print("What are \n these hacks?")
print("\t What is going on? :)")
print("SPAM" * 20)
```



Challenges:

A: Print out your favorite sport (to watch or play).

B: Print out a box like this:

C. Go to https://en.wikipedia.org/wiki/ASCII art to learn more about ASCII art. Then, search on the internet to find some artwork. Get this artwork to print out using Python.

Practice Questions:

1. What does \n do?

2. What happens when you multiply a String by a number, as in: print("Super!" * 100)?



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Skill 2: Printing - Part B (Concatenation)

print("Hello" + " What is this?")

Try:

Challenges:

A: Print out your first and last name using a + sign to join them.

B: Turn your box (from Part A) into a sign, with your name in it.

Practice Questions:

- 1. What symbol is used to **concatenate** two Strings in Python?
- 2. Why is concatenation useful?

3. What is the result of running this code?
print("You're amazing!" + " And the best!" + "And better than all the
rest!")

4. Why is there a space before the first "And" in the code above?



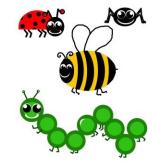
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Skill 3: Variables

Circle the variables. Underline the values. Draw an arrow to the assignment operator.

What kind of data are these variables? Then type the code.

```
bugs = 10
colour = "Red"
like_cheese = False
fav_num = 54.3
```



```
Try: print(bugs)
    print("My favourite colour is " + colour)
    print(like_cheese)
    print(fav_num*10)
```

Challenges:

A: Change the values of the variables above. Run your program to make sure the Try statements still work.

B: If you do something like this:

```
shoe_sz = 8
print("My shoe size is " + shoe_sz)
```

You will get an error. To fix it, we must turn grade into a string, like this: print("My shoe size is " + str(shoe_sz))

C: Using this concept, create a variable for your age. Then write a program to determine how many years it will be until you turn 100. Hint: Use a math statement to make this automatic.

Practice Questions:

- 1. Name 4 types of data in Python. Give an example for each.
- 2. Why do we use the str() function?



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Skill 4: Input

```
print("What is your name?")
    name = input()
    print("Hello!" + name)

Try:

    print("Enter the password:")
    paswd = input()
    if paswd == "secret123":
        print("Correct!")
    else:
        print("Access Denied")
```

Practice Questions:

1. Why do we use the input() function in Python?

2. Why is it important to print a question before using input()?