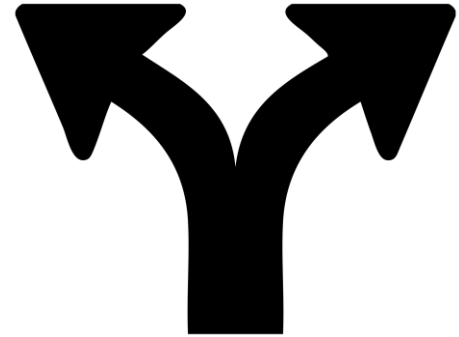**Python Level 1 - Red Badge 5 - if-statements**
Skill 1: if-statements - Basic

```
if 3 < 5:
     print("Pikachu!")
```

Try:

```
amt = 20
if amt == 20:
     print("$20 ")
else:
     print("You need more money :(")
```

Challenges:

A. Ask the user for their age. If they are older than your age, tell them a joke.

```
What is your age?
25
You are old enough for this joke:
     What do biologists talk to each other on?
     Answer: Their cell phones!
```

B. Make program to determine if a number is even or odd. You should ask the user for a number and then tell them the answer.

Basic Outline:

```
if _____ :
     statement
     statement
     statement
else:
     statement
     statement
```

***The indentation is important!**

Practice Question:

① How do computers make decisions?

Skill 2: Using elif

```
mark = 67
if mark > 90:
        print("A+")
elif mark > 80:
        print("A")
elif mark > 70:
        print("B")
else:
        print("Needs help.")
```

Operators

> greater than	< less than
>= greater than or equal to	<= less than or equal to
== Are these values equal?	!= Are these values not equal?

Challenges:

A. Add in cases for C (> 60) and D (> 50) before the else statement from the Skill above. Be sure to test with many values for `mark`.

B. Complete Simple Guessing Game on repl.it.

```
if _____ :
                statement
elif _____ :
                statement
else:
                statement
```

Practice Question:

① Do these two pieces of code produce the same results? Why or why not?

```if a > 17: print("You're an adult") if a > 13: print("You're a teenager") else: print("You're a kid.")```	```if a > 17: print("You're an adult") elif a < 13: print("You're a teenager") else: print("You're a kid.")```

Part A:

Write the output of each of these code blocks:

```python
peanut_sales = 300
if peanut_sales < 200:
    print("You have not sold enough peanuts.")
else:
    print("Quota reached.")
```

```python
month = 6
if month < 3:
    print("Winter")
elif month < 6:
    print("Spring")
elif month < 9:
    print("Summer")
else:
    print("Fall")
```

What would output if we changed the code so `month = 12`?