```
1 x1 = int(input('please enter a number '))
 2 x2 = int(input('please enter another number '))
 3 \quad sum_xs = x1 + x2
4 v if sum_xs < 10:
    x3 = -2
6 v elif sum_xs < 0:
     x3 = -1
8 v elif sum_xs < 10:
9 x3 = 0
10 v else:
11 x3 = 1
12 print(x3)
13
# alternate solution -- think about why you don't need the additional ands!
15 x1 = int(input('please enter a number '))
16 x2 = int(input('please enter another number '))
17 \quad sum_xs = x1 + x2
18 v if sum_xs < 10:
    x3 = -2
20 \vee elif sum_xs < 0 and sum_xs >= -10:
21
     x3 = -1
22 \vee elif sum_xs < 10 and sum_xs >= 0:
23 x3 = 0
24 v else:
x3 = 1
26 print(x3)
27
```

```
# here I am using silly variable names to show you can
   pick whatever you want
   eggs = 102.5
   xyzq = eggs * eggs
3
   haley = (xyzq * 3) + (eggs**.5)
4
5
   print('My final answer is: ' + str(haley))
6
7
   # but you can also use easier ones :)
   # both of these do the same!
8
9
   var1 = 102.5
10
   var2 = var1 * var1
   var3 = (var2 * 3) + (var1**.5)
11
   print('My final answer is: ' + str(var3))
12
13
```

```
age = int(input("How old are you(if you are younger than 1 year old, enter 0): "))
if 0 < age <= 12: # if pediatric
hour = "6 to 8"

temp = float(input("What is the temperature in celsius: "))
weight = float(input("What is your weight in kg: "))
if temp < 39.2: # low temp: 5mg/kg/dose
if 5 * weight < 400:
    dose = 5 * weight
else:
    dose = 400
else: # high temp: #10mg/kg/dose
if 10 * weight < 400:
    dose = 10 * weight
else:
    dose = 400
print("You can take the maximum of", dose, "mg of ibuprofen orally every",hour, "hours. You should not take more than 400mg.")

elif age == 0: # if infant
hour = "6 to 8"</pre>
```

```
elif age == 0: # if infant
hour = "6 to 8"
monthAge = input("Are you 6 months or older(Y/N): ")
if monthAge == "Y" or monthAge == "y":
   temp = float(input("What is the temperature in celsius:"))
   weight = float(input("What is your weight in kg: "))
   if temp < 39.2: # low temp: 5mg/kg/dose
   if 5 * weight < 400:
        dose = 5 * weight
        else:
        dose = 400
   else: # high temp: 10mg/kg/dose
   if 10 * weight < 400:
        dose = 10 * weight
   else:
        dose = 400
   print("You can take the maximum of", dose, "mg of ibuprofen orally every", hour, "hours. You should not take more than 400mg.")
else:
   print("You cannot take ibuprofen.")
else: # if adult
   print("You can take 200 to 400mg of ibuprofen orally every 4 to 6 hours.")</pre>
```

```
speed_ms = 350
correct_trial = True

if not correct_trial:
    use_trial = False
    else:
        if speed_ms > 4000 or speed_ms < 200:
            use_trial = False
        else:
            use_trial = True
        print(use_trial)</pre>
```

```
3 angle_abc = 46
4 angle_bca = 44
5 angle_cab = 90
8 description = ""
   # of the triangle associated with the given angels
13 is_triangle = (angle_abc + angle_bca + angle_cab == 180) & (angle_abc > 0) & (angle_bca > 0) & (angle_cab > 0)
15 _{\vee} if not is_triangle:
16 | description = "Not a triangle"
17 v elif angle_abc == angle_bca == angle_cab:
description = "An equilateral triangle"
19 v else:
20 v if angle_abc != angle_bca & angle_abc != angle_cab & angle_bca != angle_cab:
      description = "A scalene "
       description = "An isoceles "
24 v if max(angle_abc, max(angle_bca, angle_cab)) > 90:
      description += "obtuse triangle"
26 \checkmark elif (angle_abc == 90) | (angle_bca == 90) | (angle_cab == 90):
      description += "right triangle"
       description += "acute triangle"
32 print(description)
```

```
1
   red_cheeks = True
   four_legs = True
3 small = True
4
   furry = True
5
6 v if red_cheeks and four_legs and small and furry:
7 target = 'a pikachu'
8 v elif red_cheeks and not four_legs and small and not furry:
      target = 'a cockatiel'
10 v elif red_cheeks and four_legs and not small and furry:
11 target = 'a hyperactive golden retriever'
12 v elif not red_cheeks and not four_legs and small and furry:
      target = 'a snub-nosed monkey'
14 v elif not red_cheeks and not four_legs and not small:
15
      target = 'a Brown student'
16 v elif red_cheeks and four_legs and not small:
      target = 'a Brown student'
17
18 v else:
19
    target = 'other'
20
    print(target)
```