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# Question 1
x = 9
while x < 20:
    x = x + 1
    print(f"The square of {x} is {x* x}. The cube of {x} is {x* x * x}" )
# Question 2
month = input("What is your favorite month of the year? " )
number = input("What is your favorite number? " )
animal = input("What is your favorite animal? " )
print("Your new password is a concatenation of the three answers that you gave" )
password = month + number + animal
guess = 0
while guess != password:
    guess = input("Enter your new password to proceed: " )
print("Password accepted.")
# Question 3
x = 0
while x < 4:
    x = x + 1
    print("*" * x)
while x > 1:
    x = x - 1
    print("*" * x)
# Question 4
x = 0
while x < 4:
    x = x + 1
    print(" " * (4 - x) + "* " * x)
while x > 1:
    x = x - 1
    print(" " * (4 - x) + "* " * x)
# Question 5
while True:
    a = input("First number? ")
    b = input("Second number? ")
    max_attempts = 3
    try:
        a, b = int(a), int(b)
    except:
        print("Incorrect input")
        continue
    else:
        break
guess = 0
attempts = 0
while guess != (a * b) and attempts < 3:
    attempts = attempts + 1
    while True:
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guess = input(f"Attempt \#\{attempts\}. What is \{a\} * \{b\}? " )
try:
guess $=$ int(guess)
except:
print("Incorrect input")
continue
else:
break
print(f"Your answer is \{guess\}. Correct answer is \{a * b\}" )

