Lecture 06 Exercises
CS 51P – Fall 2022

Define a function is_pos_int that takes a string and returns True if the string represents an integer value and False otherwise

Write a function main that uses the functions is_pos_int and sum_squares to get a positive integer from the user and then print the sum of the squares from 1 to that number

Define a function called exp that takes a number n (an int or float) and a number p (an int or float) as parameters and returns the value n^p

Define a function called sum_powers that takes a number n (an int or float) and a power p (an int or float). If n is a positive int, it returns the sum of the powers $1^p + 2^p \ldots + n^p$. Otherwise it returns 0.