

Lab 5 Activity: Python Basics

Instructions: Submission format must be Rollnumber.zip .

Please add a folder inside the zip file with your roll number and put all python files inside it.

Q1: Write a program that takes two numbers as input and prints the largest of them.

Use the if-then-else construct available in Python. (It is true that Python has the `max()` function built in but writing it yourself is nevertheless a good exercise).

Q2: Write a program that takes a character (i.e. a string of length 1) as input and prints True if it is a vowel, False otherwise.

Q3: Write a program that maps a list of words into a list of integers representing the lengths of the corresponding words.

Q4: Write a program that takes string as input and prints the reversal of it. For example, if input is "I am testing", output should be the string "gnitset ma I".

For practice (not graded)

Q5: Password Generator

Write a password generator in Python. Be creative with how you generate passwords - strong passwords have a mix of lowercase letters, uppercase letters, numbers, and symbols. The passwords should be random, generating a new password every time the user asks for a new password. Include your run-time code in a main method.

Extra:

Ask the user how strong they want their password to be. For weak

passwords pick a word or two from a list.