# Problem Solving Session

- The remainder of today's class will comprise the problem solving session (PSS).
- Your instructor will divide you into teams of 3 or 4 students.
- Each team will work together to solve the following problems over the course of 20-30 minutes.
  - You may work on paper, a white board, or digitally as determined by your instructor.
  - You will submit your solution by pushing it to GitHub before the end of class.
- Your instructor will go over the solution before the end of class.
- If there is any time remaining, you will begin work on your homework assignment.



Class participation is a significant part of your grade (20%). This includes in class activities and the problem solving session.

Your graders will grade your participation by verifying that you pushed your solutions before the end of the class period each day.

1) make a directory and relone into that.

2) then code in git both Which will open all in the IDE

3) make changes as necessary for honework as necessary

4) collow git workflow

and, commit, push

5) check github it its
in repository.

### Problem Solving 1

For your next homework assignment, you will be writing and submitting multiple small Python programs.

Assuming that you are sitting down to begin work on a new computer, list every step that you should perform to complete and submit the first program\*.

 Obviously you don't know the specific details of what the program needs to do - just think about the generic steps you need to go through.

## Problem Solving 2

There are at least 3 different ways to execute a Python program discussed during today's lecture. List as many as you can remember along with at least one pro and one con for each.

Indicate which option each team member prefers the most and plans to use during class and/or on their assignments.

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2) Yun from command like
con: miset have to type more
pro: better few into
I pretur command like

3

Print ("Your Buzgalo", "Fel AVIV, ISRAEL",

Print ("Your Buzgalo", "Fel AVIV, ISRAEL",

print ("Your Buzgalo", "Fel AVIV, ISRAEL",

prots sup="/n", end="/n/n")

Print ("Suth Fostw" "Fredurck mo",

sup="/n", end="/n/n")

### Problem Solving 3

In the space to the left, write the code to print the name and hometown of each of your team members. Include a blank line between each in the output.

Hermione Granger Heathgate, Hampstead

Harry James Potter Godric's Hollow

Ron Weasley Ottery St Catchpole, Devon

#### Problem Solving 4

In this unit we saw that Python variables have scope, i.e. the places in the program where they can be accessed. In the space to the right, list the types of scope that variables can have along with a short code example.

GLOBAL\_1 = "ABC"

JEL Some\_Function():

local\_VOV="|13"

Print(GLOBAL\_1)

can access global

Print (local\_Vav)

can access Ideal Vaviable

Vithin Eunction

Print (local\_vor)

NoT work, Since its outside

Seque

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det print\_order (state, eity, Street, Eig, hose an):

Print ("Yest mailing address is: "Approximately state)

Print (Viouse\_num, Street)

Print (city, state, Zip)

det main():

hpppe how state = input ("entor state")

(ity = input ("entor city")

Street dun = input ("entor street num")

2ip. input ("entor 2ip")

Loule num = input ("entor have num")

### ې Problem Solving 5

Write the code to prompt the user to enter the two letter abbreviation for their home state (e.g. "NY"), home city, street name, zip code, and house number (in that order). Then print their properly formatted mailing address.

Enter your home state: NY

Enter your home city: West Henrietta

Enter your street name: Dutchess Rd.

Enter your zip code: 14583 Enter your house number: 1347

Your mailing address is:

1347 Dutchess Rd.

West Henrietta , NY 14583

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