

List basics in-class activity

1. Type the following commands in [Python Shell](#) and answer the questions.

```
>>> n = ['Tom', 'David', 'Jane']
>>> a = [19, 27, 34]
>>> p = ["716-763-4534", "938-647-2351", "817-982-3424"]

>>> r = [n[1], a[2], p[0]]
>>> print(r)
```

What will the following piece of code produce?

What do you think variable/identifier **r** represents? (*choose one of the answers below*)

- (a) just a person's name
- (b) a record: person's name, person's age and person's SSN
- (c) just a person's name and age
- (d) a movie

2. Assume we have two lists: `a = [1,2,3,4]` and `b = ['a','b','c']`

Answer the following questions (assume you are working with Python Shell)

(a) How to display the last element of the list `a`?

(b) How to remove the last element from the list `b`?



(c) The function call `len(a)` returns the length of the list `a`.

Write the command to display the sum of the lengths of lists `a` and `b` (using `len()` and `print()` and `+`).

(d) What will happen if you type the following statement:

`a+b` ?

(e) How can we “save” the result of `(a+b)` so that we could use it sometime later in a program?

3. What will the following piece of code produce? Make sure you understand how the result is achieved!

```
n = ['Tom', 'David', 'Jane']
```

```
a = [19, 27, 34]
```

```
p = ["716-763-4534", "938-647-2351", "817-982-3424"]
```

```
r = [n[1], a[2], p[0]]
```

```
print(r)
```

