

CSE 160 - Section 1

January 6, 2019

1 CSE 160 Section 1 Problems

1.1 Problem 1.

For each expression, write the resultant value and the data type of the value (for instance, Integer)

- a. 42
- b. 42+91/3.0
- c. 42/5+2.0
- d. True
- e. 42<45
- f. not42<91
- g. "May the force be with you."
- h. float(3) < 9

```
In [3]: # Code cell for testing solutions to Problem 1
        # Hint: type() may be useful (e.g. type(42))
```

1.2 Problem 2.

For each list write an equivalent range() call. For each range() call give the corresponding list.

- a. [0,1,2,3]
- b. [-4, -3, -2, -1, 0]
- c. range(0, 10, 2)
- d. range(2, 11, 3)
- e. [25, 20, 15, 10, 5, 0]
- f. range(1000, -100, -100)

```
In [ ]: # Code cell for testing solutions to Problem 2
```

1.3 Problem 3.

Write the output to the following program:

```
for value in [1, 3, 5]:
    print (value + value ** 2)
```

```
In [ ]: # Code cell for testing solutions to Problem 3
        # Please try to figure out the expected output before testing the code.
```

1.4 Problem 4.

Write a for loop that will print the result of multiplying 3 by the numbers 8 through 12. The example solution is two lines long. Your output should read:

```
24
27
30
33
36
```

```
In [ ]: # Code cell for testing solutions to Problem 4
```

1.5 Problem 5.

Write the output to the following program:

```
for i in [1, 2, 3]:
    for j in [1, 2, 3]:
        print (i + j)
```

```
In [ ]: # Code cell for testing solutions to Problem 5
        # Please try to figure out the expected output before testing the code.
```

1.6 Problem 6.

Write the output to the following program:

```
sum=0
for i in [1,2,3]:
    for j in [1,2, 3]:
        sum=sum+ i
print (sum)
```

```
In [ ]: # Code cell for testing solutions to Problem 6
        # Please try to figure out the expected output before testing the code.
```