EPAM Python for QA Training

Homework 2-1

Level 1

1. Write a program to calculate expression:

where a = 32, b = 37.2, c = -102.345, d = 45, e = 11, f = 3, g = 0.002, h = 11.

2. Print this ASCII graphic using 4 different string literal types:

3. Print unique elements from any given list or tuple.

Level 2

- 4. Write a program to calculate the number of times that the string 'hi' appears anywhere in the given string and change 'hi' to 'bye'. Case should be ignored.
- 5. Unite three lists to one and print it in reverse order:

```
list1 = [1, 2, 3]
list2 = [4, 5, 6]
list3 = [7, 8, 9]
```

Level 3

- 6. Having tuple ('postgresql', 'semantic.amazonaws-prod.com', 5432, 'semantic', 'admin', '12345') with production database connection properties (dialect, host, port, database name, user name, password), program should:
 - create prod_config dictionary, where dict keys are connection properties names and dict values are appropriate values from the input tuple;
 - create staging_config dictionary with the same keys and values as prod_config;
 - in staging_config change host to 'semantic.amazonaws-staging.com' and password to 'root';

• for prod_config and staging_config print connection strings in the following format ${dialect}://{user name}:{password}@{host}:{port}/{database name}$