ITP4115 CA Test Preparation Exercise

1. Write a simple Flask Application using app.py.

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(a) Write down the code that creates a simple Flask Application.

(b) Write down the rest of module need to be imported.

2. This question is about the state management using Python   
(a) What is the difference between HTTP POST, GET & PUT methods?   
  
(b) What is Cookie?

(c) How to implement Cookie in Python? please write down a code sample for a cookie with name **loginname** and value **lwl123** with expiry date of 1 day.

3. This question concerns about a web form written in Flask

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| --- | --- |
|  | from flask\_wtf import FlaskForm  from wtforms import StringField, PasswordField, BooleanField, SubmitField  from wtforms.validators import DataRequired  class LoginForm(FlaskForm):  password = (a)  submit = (b) |

(a) Write down the code that creates a required Password field to password

(b) Write down the code that creates a submit field as a “Sign in” button

4. This question is about Zen Coding

(a) Write a Zen coding to generate the following :

<div id="container">

<h2></h2>  
 <h5></h5>

<p></p>  
 <p></p>

</div>

(b) Write a Zen coding to generate the following :

<ul id="head">

<li><img src="image1.png" alt="" class="icon"></li>

<li><img src="image2.png" alt="" class="icon"></li>

<li><img src="image3.png" alt="" class="icon"></li>

</ul>

5. This part concerns Git   
(a) How to create a new local repository named “microblog”??

(b) How to move all files to staging??

(c) How to commit all staged files to local repository with comment “Initial version”?

6. This part concerns Docker

(a) How to build the docker image with tag “test:latest”

7. This question concerns how to define an ORM in Flask   
Firstly, we need to install Flask migrate module   
  
Secondly, we need to create a migration repository (initialize a database file and migration folder)  
  
Thirdly, we need to create a migration file with comment “Admin Table”  
  
Write down 3 commands of the above steps.

8. This question concerns using Flask for sending email

(a) How to install a Flask-Mail plugin?  
  
(b) Which config you have to set before you are able to send email using Flask-Mail plugin   
SMTP Server address, SMTP Server Port, Sender username, Sender password, Using SSL as

encryption method :  
  
MAIL\_SERVER

MAIL\_PORT

MAIL\_USE\_SSL

MAIL\_USERNAME

MAIL\_PASSWORD