Jack Win  
Professor Chen  
CS 372  
9/7/2024  
Homework #2

1. Dig or nslookup
   * Find the IP address(es) of the Web server of our university (i.e., Purdue University Fort Wayne).   
     A computer screen shot of a black screen

     Description automatically generated   
     dig pfw.edu A  
     104.18.18.143 and 104.18.19.143
   * Find the names of the domain name servers of our university.   
     A computer screen shot of a black screen

     Description automatically generated   
     dig pfw.edu NS  
     dns1.pfw.edu and idnsa.pfw.edu
   * Find the names of the mail servers of our university.   
     A computer screen shot of a black screen

     Description automatically generated   
     dig pfw.edu MX  
     pfw-edu.mail.protection.outlook.com
2. HTTP Request and Response
   * What is the main difference between HTTP GET request and HTTP POST request?  
     GET caches data and has certain restrictions on data, while POST does neither
   * When to use HTTP GET request and when to use HTTP POST request?  
     GET is used to request data from a site and POST is used to send data to a site
   * What does it mean for HTTP response status code 200, 301, and 404?  
     200 means the request for a resource succeeded, 301 is when a resource has been moved in the server, and 404 means that resource requested is not found
3. Web service
   * Fort Wayne, IN, USA  
     Current Temperature: 57.96 Fahrenheit  
     A screen shot of a computer program

     Description automatically generated
   * Miami, FL, USA  
     Current Temperature: 88.48 Fahrenheit  
     A screen shot of a computer

     Description automatically generated
   * San Francisco, CA, USA  
     Current Temperature: 56.89 Fahrenheit  
     A screen shot of a computer program

     Description automatically generated