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|  | Chapter 15 Practice Questions – Keeping Time, Scheduling Tasks, and Launching Programs |
| **Q1** | **What is the Unix epoch?** |
| A | A time reference commonly used in programming (12AM January 1, 1970 UTC). Its like time 0 |
| **Q2** | **What function returns the number of seconds since the Unit epoch?** |
| A | The time.time() function returns the number of seconds since time zero and it has a float value |
| **Q3** | **How can you pause your program for exactly 5 seconds?** |
| A | time.sleep(5) |
| **Q4** | **What does the round() function return?** |
| A | It founds a float data type. It takes two arguments; the number to round and to how many decimal places to round it to) |
| **Q5** | **What is the difference between a datetime object and a timedelta object?** |
| A | A datetime object has integers stored in the attributes: Year, Month, Day, Hour, Minute and Second  Example:  import datetime  datetime.datetime.now() *returns*  datetime.datetime(2021, 6, 23, 13, 30, 13, 424426)  A timedelta object represents a time duration rather than a specific moment  Example:  delta = datetime.timedelta(days=11, hours=10, minutes=9, seconds=8)  delta.days, delta.seconds, delta.microseconds *returns*  (11, 36548, 0)  delta.total\_seconds()  986948.0 |
| **Q6** | **Say you have a function named spam(). How can you call this function and run the code inside it in a separate thread?** |
| A | import threading  threadObj = threading.Thread(target=spam)  threadObj.start() |
| **Q7** | **What should you do to avoid concurrency issues with multiple threads?** |
| A | To avoid concurrency issues, never let multiple threads read or write the same variables. When you create a new Thread object, make sure its target function uses only local variables in that function. This will avoid hard-to-debug concurrency issues in your programs |
| **Q8** | **How can you have your Python program run the calc.exe program located in the C:\Windows\System32 folder?** |
| A | import subprocess  subprocess.Popen(‘C:\\Windows\\System32\\calc.exe’) |