1.

What is multiprocessing in Python?

* A process of running multiple threads simultaneously within a single process.
* A process of running multiple processes simultaneously within a single thread.
* A process of running multiple processes simultaneously within multiple threads.
* A process of running a single process within multiple threads.

2.

What is the purpose of multiprocessing in Python?

* To improve the performance of a program by using multiple CPUs or CPU cores.
* To improve the memory utilization of a program by using multiple CPUs or CPU cores.
* To improve the overall efficiency of a program by using multiple CPUs or CPU cores.
* To improve the input/output operations of a program by using multiple CPUs or CPU cores.

3.

 Which module is used to create and manage processes in Python?

* multiprocessing
* threading
* concurrent.futures
* queue

4.

What is a process pool in multiprocessing?

* A group of threads that share the same set of variables.
* A group of processes that share the same set of variables.
* A set of processes that can be executed concurrently to perform a specific task.
* A set of threads that can be executed concurrently to perform a specific task.

5.

 Which method is used to start a new process in Python?

* start()
* run()
* create()
* begin()

6.

What is the difference between multiprocessing and multithreading in Python?

* Multithreading runs multiple threads simultaneously within a single process, whilemultiprocessing runs multiple processes simultaneously within a single thread.
* Multithreading runs multiple processes simultaneously within a single thread, while multiprocessing runs multiple threads simultaneously within a single process.
* Multithreading and multiprocessing are the same thing.
* Multiprocessing is used for CPU-bound tasks, while multithreading is used for I/O-bound tasks.