7CCSMDLC TUTORIAL QUESTIONS and SOLUTIONS
TOPIC 1: INTRODUCTION
TUTORIALS WEEK 2

Q1. What does "market capitalization" or "market cap" mean in relation to a cryptocurrency?

The Market Cap of a cryptocurrency is the current price value of the currency (usually expressed in some fiat currency, such as US$) multiplied by the number of units of the currency currently in circulation (ie, created).

Find an estimate of the current market caps of the top 20 cryptocurrencies.
Available from here:

Coinbase
http://www.coinbase.com/price

CoinMarketCap.com
https://coinmarketcap.com

What cryptocurrency has the smallest market cap that is still above US$ 1 billion?

Answer from the lists above.

Q2. Describe briefly (1-2 sentences) what each of the following cryptocurrencies was created for:

- Augur – a betting platform
- Litecoin – a cryptocurrency with faster block update times than BTC
- Monero – a cryptocurrency with greater privacy than BTC
- Nexus Mutual (NXM) – a platform for insurance of smart contracts
- Tether – a stable coin (ie, a cryptocurrency seeking to maintain a stable value against some benchmark currency)
- Tezos – a platform intended for hosting of smart contracts
- XRP – a digital currency for inter-bank transfers
- Zcash – cryptocurrency with greater privacy than BTC.

Q3. Why has FTX been in the news?

FTX was a collection of cryptocurrency exchanges in different countries, most of which collapsed into bankruptcy in late 2022. Depositors in these exchanges lost their funds, apparently due to fraud. A court case in Manhattan in the Southern District of New York is currently ongoing.

Q4. What is a block explorer?

A block explorer is a program that enables viewing of the blocks and transactions on a blockchain.   Examples are:

Blockchain.com Explorer

https://www.blockchain.com/explorer

Blockcypher

https://live.blockcypher.com/

Find a blockexplorer to answer the following questions.

- **What block number are we up to with Bitcoin?**
   On Friday 2023-01-20 we are at Block #: 772861

- **What block number are we up to with Ethereum?**
-
   Current block: 16,450,977 (Friday 2023-01-20 22:23:47)

   Source:
   https://bitinfocharts.com/ethereum/

Q5. The following cryptocurrencies are forks of Bitcoin. Find out when they forked.

- Bitcoin Cash (BCH) – 2017.

- Bitcoin Gold (BTG) – 2017.

- Bitcoin Satoshi Vision (Bitcoin SV or BSV) – 2018.

What is the market value of each, as a percentage of Bitcoin? (left for the reader)