Document For Utilities Assignment

Code link -

*I have used Python Inbuilt libraries PSUTIL and SOCKET to perform operations.*

1. Show the memory statistics of a machine in text format, with a readable description.

* memory = psutil.virtual\_memory() this function is used to retrieve the machine stats for on-board virtual memory
* To conver it’s output into dynamic string I have used f String and printed on board memory in Gigabytes.

2. Show the CPU statistics of the machine.

* cpu = psutil.cpu\_percent()
* print("CPU Information:")
* print(f"CPU Usage: {cpu}%")
* This above snippet yield the output of the machine cpu used in percentage and Total CPU capacity as well.

3. Show the disc usage and disc-free status.

* disk\_usage = psutil.disk\_usage('/') , this function of Psutil returns the disk usage and the output is printed in user readable format.

4. Given an IP, write an app that connects with that IP and shows the above information. How do you create such applications?

* Here I have used the socket library from python and provided the local machine IP address and the active port number, hence when The socket is connect it runs the above functions and gives us the output in user readable format.