Lab 1: Mountain Car Problem

pip install git+https://github.com/openai/mujoco-py --user

```
In [ ]: import gym
        env = gym.make("MountainCar-v0", render_mode="human")
In [ ]: obs_space = env.observation_space
        action_space = env.action_space
        print("The observation space: {}".format(obs_space))
        print("The action space: {}".format(action_space))
        The observation space: Box([-1.2 -0.07], [0.6 0.07], (2,), float32)
        The action space: Discrete(3)
In [ ]: pip install pygame
        Requirement already satisfied: pygame in c:\users\mrinal bhan\anaconda3\envs\gym\lib\site-packages (2.1.0)
        Note: you may need to restart the kernel to use updated packages.
        import matplotlib.pyplot as plt
        # reset the environment and see the initial observation
        obs = env.reset()
        print("The initial observation is {}".format(obs))
        # Sample a random action from the entire action space
        random_action = env.action_space.sample()
        # # Take the action and get the new observation space
        new_obs, reward, done, info,k = env.step(random_action)
        print("The new observation is {}".format(new_obs))
        The initial observation is (array([-0.44677672, 0.
                                                                   ], dtype=float32), {})
        The new observation is [-0.4473478 -0.00057108]
       import time
        num_steps = 1500
        obs = env.reset()
        for step in range(num_steps):
            action = env.action_space.sample()
            obs, reward, done, info,k = env.step(action)
            env.render()
            #time.sleep(0.001)
            if done:
                env.reset()
        # Close the env
        env.close()
        pip install gym[all] --user
In [ ]:
```