GOOGLE EARTH ENGINE APP TO SOURCE CODE

```
In [ ]:  ###########################################################################
         ###########################################    Kenneth EKpetere    ##############
         ###########################################        (C) 2023        ##############
         ###########################################################################
```

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Base Package Installation

This tool assumes that Earth Engine Python API is installed as desribed here

Summery Steps for EE installation

Install the EE API to an arbitrary Python environment using pip. You need to perform ee installation task once for every new environment.

```
In [ ]:  pip install earthengine-ap
```

```
In [ ]:  pip install earthengine-api --upgrade   # Check for update and upgrade
```

Import the EE Python API package called ee

```
In [ ]:  import ee
```

Install geeadd package

To learn about the geeadd package check here.

```
In [ ]:  pip install geeadd
```

```
In [ ]:  # pip install geeadd --user   # Alternative method
```

```
In [ ]:  ###########   You can install geeadd using conda ################
         # conda install -c conda-forge geeadd
         # conda install -c conda-forge geeadd=1.0.1 # check for update
```

Import Libraries

```
In [ ]:  import argparse
         import geeadd
         import subprocess
```

Run GEE App to Source Code

```python
In [ ]:  def extract_gee_script(url, outfile):
             try:
                 # Use subprocess to execute the geeadd command
                 cmd = f'geeadd app2script --url "{url}" --outfile "{outfile}"'
                 subprocess.run(cmd, shell=True, check=True)
                 print(f"JavaScript source code has been saved to '{outfile}'")

             except subprocess.CalledProcessError as e:
                 print(f"Error: {e}")

             except Exception as e:
                 print(f"An error occurred: {str(e)}")

         if __name__ == "__main__":

             # Enter the Google Earth Engine application link
             app_link = input("Enter the Google Earth Engine application link: ")

             # Enter the complete output file path
             output_file = input("Enter the output file path (e.g., C:\\path\\to\\output.js)

             # Call the function to extract and save the JavaScript source code
             extract_gee_script(app_link, output_file)
```

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