```
import pandas as pd
import numpy as np
import pyreadstat
import os
print("Simple PIAAC SPSS to R Converter")
print("=" * 40)
print("1. Checking for SPSS file...")
filename = 'prgusap1_puf.sav'
if not os path exists(filename);
   print(f"X File '{filename}' not found!")
   print("Available .sav files in current directory:")
    sav_files = [f for f in os.listdir('.') if f.endswith('.sav')]
    if sav_files:
       for f in sav_files:
            print(f" - {f}")
        print(f"\nIf your file has a different name, update the 'filename' variable above.")
   else:
        print(" No .sav files found")
   print("Stopping execution.")
else:
   print(f" Found file: {filename}")
   print("\n2. Loading SPSS file...")
    try:
        df, meta = pyreadstat_read_sav(filename)
        print(f" < Successfully loaded: {df.shape[0]:,} rows × {df.shape[1]:,} columns")</pre>
        print("\n3. Exporting to CSV...")
        df.to_csv('piaac_full_dataset.csv', index=False)
        file_size = os.path.getsize('piaac_full_dataset.csv') / 1024**2
        print(f" > Exported: piaac full dataset.csv ({file size:.1f} MB)")
        print("\n4. Creating research subset...")
        key vars = []
        essential = ['SEQID', 'SPFWT0', 'GENDER_R', 'AGEG10LFS_T', 'EDCAT8', 'PARED']
        for var in essential:
            if var in df.columns:
                key vars append(var)
```

```
for domain in ['LIT', 'NUM', 'PSL']:
    for i in range(1, 11):
        var = f'PV{domain}{i}'
        if var in df.columns:
            key_vars_append(var)
for i in range(1, 11):
    var = f'SPFWT{i}'
    if var in df columns:
        key vars append(var)
if key vars:
    subset_df = df[key_vars].copy()
    subset_df.to_csv('piaac_research_subset.csv', index=False)
    print(f" Research subset: {len(key_vars)} variables saved")
print("\n5. Creating R import script...")
r_script = f'''# Load PIAAC Data in R
with open('load_piaac_in_r.R', 'w') as f:
    f write(r_script)
print(" Created: load piaac in r.R")
```

```
print("\n6. Creating variable list...")
    var_info = []
    for col in df columns:
        var_info append({
            'variable': col
            'type': str(df[col].dtype),
            'missing_count': df[col].isnull().sum(),
            'unique values': df[col].nunique() if df[col].nunique() < 50 else '>50'
        })
    var_df = pd_DataFrame(var_info)
    var_df.to_csv('piaac_variables.csv', index=False)
    print(f" / Variable list: {len(var df)} variables documented")
    print(f'' \ n'' + "="*40)
    print("SUCCESS! Files created:")
   print("/ piaac_full_dataset.csv - Complete dataset")
    if key vars:
        print("/ piaac_research_subset.csv - Key research variables")
    print("/ piaac_variables.csv - Variable information")
   print(" load_piaac_in_r.R - R import script")
    print(f"\nTo use in R:")
    print(f"1. Open R/RStudio")
    print(f"2. Set working directory to this folder")
    print(f"3. Run: source('load_piaac_in_r.R')")
    print(f"4. Your data will be in 'piaac data'")
except Exception as e:
   print(f"X Error loading file: {e}")
   print("This might be due to:")
   print("- File corruption")
    print("- Insufficient memory")
   print("- Incompatible SPSS version")
    print("\nTry loading the file directly in R instead:")
    print("library(haven)")
   print("piaac data <- read sav('prqusap1 puf.sav')")</pre>
```