

1. Web Scraper: Extract data from websites using libraries like Beautiful soup or Scrapy.

```
import requests
from bs4 import BeautifulSoup

# URL of the website to scrape.
url = "https://www.shadowfox.in"

try:
    # Sending a GET request to the website.
    response = requests.get(url)
    response.raise_for_status() # Checking for errors.

    # Parsing the HTML content.
    soup = BeautifulSoup(response.text, 'html.parser')

    # Extracting all of the headings.
    print("--- Scraping Data from", url, "\n")
    headings = soup.find_all(['h1', 'h2', 'h3'])

    for idx, heading in enumerate(headings, 1):
        print(idx, heading.get_text().strip())

    with open('scraped_headings.txt', 'w') as f:
        for heading in headings:
            f.write(heading.get_text().strip() + "\n")
        print("\n[Success] Data extracted and saved to 'scraped_headings.txt'")

except Exception as e:
    print("An error occurred:", e)
```

```

--- Scraping Data from https://www.shadowfox.in

1 We develop amazing websites for your business.
2 Future Concept.
3 The Big Idea.
4 Creative Solutions
5 About Us.
6 Custom Web Experiences
7 Digital Solutions
8 Agile Experts
9 Our Past Works.
10 Client - Tanjore Coffee Website
11 Our Client Stories.
12 Frequently Asked Questions.
13 What services do you offer?
14 How long does it take to build a website?
15 Do you provide website hosting and domain registration?
16 How do I get a quote for my project?
17 Support
18 Follow Us
19 Contact Us

[Success] Data extracted and saved to 'scraped headings.txt'

```

2. Hangman: Implement the wordguessing game with visual progress and hints

[illegible]

```
print("Welcome to ShadowFox Hangman!")
print("Hint:", get_hint(word))

while attempts > 0:
    print(stages[attempts])

    # Display the word with underscores
    display_word = [letter if letter in guessed_letters else "_" for letter in word]
    print("Word: " + " ".join(display_word))

    if "_" not in display_word:
        print("Congratulations! You guessed the word!")
        break

    guess = input("Guess a letter: ").lower()

    if guess in guessed_letters:
        print("You already guessed that letter.")
    elif guess in word:
        print("Good job!", guess, "is in the word.")
```

Welcome to ShadowFox Hangman!
Hint: Country which is also known as the the Golden Bird.

