Create a game where the computer generates a random number, and the user has to guess it.

python

Copy code

import random

def guess\_the\_number():

target\_number = random.randint(1, 100)

user\_guess = 0

while user\_guess != target\_number:

user\_guess = int(input("Guess the number between 1 and 100: "))

if user\_guess < target\_number:

print("Too low! Try again.")

elif user\_guess > target\_number:

print("Too high! Try again.")

else:

print("Congratulations! You guessed the number.")

guess\_the\_number()

To-Do List:

Implement a simple to-do list where users can add, view, and remove tasks.

python

Copy code

class ToDoList:

def \_\_init\_\_(self):

self.tasks = []

def add\_task(self, task):

self.tasks.append(task)

def view\_tasks(self):

print("Tasks:")

for task in self.tasks:

print(f"- {task}")

def remove\_task(self, task):

if task in self.tasks:

self.tasks.remove(task)

print(f"Task '{task}' removed.")

else:

print(f"Task '{task}' not found.")

my\_todo\_list = ToDoList()

my\_todo\_list.add\_task("Finish Python project")

my\_todo\_list.add\_task("Study for exams")

my\_todo\_list.view\_tasks()

my\_todo\_list.remove\_task("Study for exams")

Simple Web Scraper:

Create a basic web scraper to fetch information from a website.

python

Copy code

import requests

from bs4 import BeautifulSoup

def simple\_web\_scraper(url):

response = requests.get(url)

soup = BeautifulSoup(response.text, 'html.parser')

# Replace 'your-selector' with the actual HTML element selector you want to scrape

data = soup.select('your-selector')

for item in data:

print(item.text)

simple\_web\_scraper('https://example.com')

Basic Calculator:

Build a simple calculator that can perform basic arithmetic operations.

python

Copy code

def basic\_calculator():

num1 = float(input("Enter the first number: "))

operator = input("Enter the operator (+, -, \*, /): ")

num2 = float(input("Enter the second number: "))

if operator == '+':

result = num1 + num2

elif operator == '-':

result = num1 - num2

elif operator == '\*':

result = num1 \* num2

elif operator == '/':

result = num1 / num2

else:

print("Invalid operator.")

return

print(f"Result: {result}")

basic\_calculator()