def month\_names():

months = ["January", "February", "March", "April", "May", "June",

"July", "August", "September", "October", "November", "December"]

month = int(input("Enter the month: "))

if 1 <= month <= 12:

print(f"Month {month} is {months[month - 1]}")

else:

print("Invalid month. Please enter a number between 1 and 12.")

def cinema\_ticket():

age = int(input("Enter your age: "))

full\_price = 6.00

price = full\_price / 2 if age < 16 else full\_price / 3 if age >= 60 else full\_price

print(f"Your ticket costs £{price:.2f}")

def bmi\_calculator():

weight = float(input("Enter your weight in (kg): "))

height = float(input("Enter your height in (m): "))

bmi = weight / (height \*\* 2)

category = "Underweight" if bmi < 18.5 else "Normal" if bmi < 25 else "Overweight" if bmi < 30 else "Obese"

print(f"Your BMI is: {bmi:.2f}\nYou are in the \"{category}\" range.")

def greatest\_of\_three():

a, b, c = [float(input(f"Enter number {i+1}: ")) for i in range(3)]

print(f"The greatest number is: {max(a, b, c)}")

def factorial():

num = int(input("Enter a number: "))

fact = 1

for i in range(1, num + 1):

fact \*= i

print(f"The factorial of {num} is {fact}")

def reverse\_number():

num = int(input("Enter a number: "))

rev = 0

while num > 0:

rev = rev \* 10 + num % 10

num //= 10

print(f"Reversed number: {rev}")

def find\_multiples():

num, limit = int(input("Enter a number: ")), int(input("Enter the range limit: "))

for i in range(1, limit + 1):

print(f"{num} x {i} = {num \* i}")

def echo\_until\_done():

while True:

text = input(":")

if text.lower() == "done":

print("Done")

break

print(text)

def fizzbuzz():

for i in range(1, 11):

print("FizzBuzz" if i % 3 == 0 and i % 5 == 0 else "Fizz" if i % 3 == 0 else "Buzz" if i % 5 == 0 else i)

def print\_pattern():

for i in range(5, 0, -1):

print(" ".join(map(str, range(i, 0, -1))))

def main():

functions = [month\_names, cinema\_ticket, bmi\_calculator, greatest\_of\_three, factorial,

reverse\_number, find\_multiples, echo\_until\_done, fizzbuzz, print\_pattern]

while True:

print("\nChoose an exercise:")

for i, func in enumerate(functions, 1):

print(f"{i}. {func.\_\_name\_\_.replace('\_', ' ').title()}")

print("0. Exit")

choice = int(input("Enter your choice: "))

if choice == 0:

break

elif 1 <= choice <= len(functions):

functions[choice - 1]()

else:

print("Invalid choice, try again.")

if \_\_name\_\_ == "\_\_main\_\_":

main()