def even\_odd(num):

return "Even" if num % 2 == 0 else "Odd"

def pos\_neg\_zero(num):

if num > 0:

return "Positive"

elif num < 0:

return "Negative"

else:

return "Zero"

def factors(num):

return [i for i in range(1, num + 1) if num % i == 0]

while True:

print("Menu:")

print("1. Check Even or Odd")

print("2. Check Positive, Negative or Zero")

print("3. Generate Factors")

print("4. Exit")

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

if choice == 1:

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

print(f"The number is {even\_odd(num)}")

elif choice == 2:

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

print(f"The number is {pos\_neg\_zero(num)}")

elif choice == 3:

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

print(f"Factors of {num}: {factors(num)}")

elif choice == 4:

break

else:

print("Invalid choice!")