1)

def check\_even\_number(num):

try:

if num % 2 != 0:

raise ValueError("Number is odd. Exception raised.")

else:

print("Number is even.")

except ValueError as e:

print(e)

# Example usage:

try:

num = int(input("Enter an integer: "))

check\_even\_number(num)

except ValueError as e:

print("Invalid input. Please enter a valid integer.")

2)

def check\_duplicates(arr):

try:

if len(arr) != len(set(arr)):

raise ValueError("Duplicate numbers found in the array. Exception raised.")

else:

print("No duplicates found in the array.")

except ValueError as e:

print(e)

# Example usage:

try:

arr = [int(x) for x in input("Enter integers separated by spaces: ").split()]

check\_duplicates(arr)

except ValueError as e:

print(e)

3)

def check\_vowels(string):

try:

vowels = set("AEIOUaeiou")

if not any(char in vowels for char in string):

raise ValueError("String does not contain vowels. Exception raised.")

else:

print("String contains vowels.")

except ValueError as e:

print(e)

# Example usage:

try:

string = input("Enter a string: ")

check\_vowels(string)

except ValueError as e:

print(e)