**Week 11**

**1. Import SciPy and explore their functionalities.**

**Program**

from scipy import special

a = special.exp10(3)

print(a)

 b = special.exp2(3)

print(b)

 c = special.sindg(90)

print(c)

 d = special.cosdg(45)

print(d)

**output:**

1000.0

8.0

1.0

0.7071067811865475

**2. Write a GUI program to create a window wizard having two text labels, two text**

**fields and two buttons as Submit and Reset.**

**Program:**

import tkinter as tk

def submit():

value1 = entry1.get()

value2 = entry2.get()

value3 = entry3.get()

label\_result.config(text=f"Value 1: {value1}\nValue 2: {value2}\nValue 3: {value3}")

def reset():

entry1.delete(0, tk.END)

entry2.delete(0, tk.END)

entry3.delete(0, tk.END)

label\_result.config(text="Result:")

# Create the main window

root = tk.Tk()

root.geometry("300x300")

root.title("Window Wizard")

# Create labels

label1 = tk.Label(root, text="Enter Value 1:")

label2 = tk.Label(root, text="Enter Value 2:")

label3 = tk.Label(root, text="Enter Value 3:")

# Create entry fields

entry1 = tk.Entry(root)

entry2 = tk.Entry(root)

entry3 = tk.Entry(root)

# Create buttons

submit\_button = tk.Button(root, text="Submit", command=submit)

reset\_button = tk.Button(root, text="Reset", command=reset)

# Arrange widgets using grid layout

label1.grid(row=0, column=0, padx=10, pady=5)

entry1.grid(row=0, column=1, padx=10, pady=5)

label2.grid(row=1, column=0, padx=10, pady=5)

entry2.grid(row=1, column=1, padx=10, pady=5)

label3.grid(row=2, column=0, padx=10, pady=5)

entry3.grid(row=2, column=1, padx=10, pady=5)

submit\_button.grid(row=3, column=0, columnspan=2, pady=10)

reset\_button.grid(row=4, column=0, columnspan=2, pady=10)

label\_result = tk.Label(root, text="Result:")

label\_result.grid(row=5, column=0, columnspan=2, pady=5)

# Start the main event loop

root.mainloop().

**Output:**

