

BLOCKCHAIN ENGINEERING

ASSIGNMENT - 006

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Batch: 06

Problem Statement -

Develop a basic Personal Portfolio Smart Contract that stores and retrieves portfolio details (name, role, and description).

Code -

```
assignment6.py > ...
1  import tkinter as tk
2  from tkinter import messagebox
3
4  # Storage (simulating smart contract storage)
5  portfolio_data = {}
6
7  # Function to save data
8  def save_data():
9      name = name_entry.get()
10     role = role_entry.get()
11     desc = desc_text.get("1.0", tk.END).strip()
12
13    if name and role and desc:
14        portfolio_data["name"] = name
15        portfolio_data["role"] = role
16        portfolio_data["description"] = desc
17        messagebox.showinfo("Success", "Portfolio Saved Successfully")
18    else:
19        messagebox.showwarning("Error", "All fields required")
20
assignment6.py > ...
21 # Function to retrieve data
22 def retrieve_data():
23     if portfolio_data:
24         result = f"Name: {portfolio_data['name']}\nRole: {portfolio_data['role']}\nDescription: {portfolio_data['description']}"
25         messagebox.showinfo("Portfolio Data", result)
26     else:
27         messagebox.showwarning("Error", "No data stored")
28
29 # GUI
30 root = tk.Tk()
31 root.title("Personal Portfolio Smart Contract (Simulation)")
32 root.geometry("400x400")
33
34 tk.Label(root, text="Name").pack()
35 name_entry = tk.Entry(root, width=40)
36 name_entry.pack()
37
38 tk.Label(root, text="Role").pack()
39 role_entry = tk.Entry(root, width=40)
40 role_entry.pack()
41
42 tk.Label(root, text="Description").pack()
43 desc_text = tk.Text(root, height=6, width=30)
44 desc_text.pack()
```

```
45     tk.Button(root, text="Save Portfolio", command=save_data).pack(pady=10)
46     tk.Button(root, text="Retrieve Portfolio", command=retrieve_data).pack()
47
48
49 root.mainloop()
```

Output -



