

ASSIGNMENT

NAME : SRAVANI

HALLTICKET : 2303A510G7

BATCH : 30

CODE:

```
import tkinter as tk
import hashlib
import time

# Blockchain-style variables
money_received = 0
previous_hash = "GENESIS_HASH"
current_hash = "GENESIS_HASH"

def generate_hash(amount, timestamp):
    data = f"{amount}{timestamp}{previous_hash}"
    return hashlib.sha256(data.encode()).hexdigest()

def send_money():
    global money_received, previous_hash, current_hash

    try:
        amount = float(entry_amount.get())
    except ValueError:
```

```
label_status.config(text="Enter a valid number!")  
return
```

```
money_received += amount
```

```
previous_hash = current_hash    current_hash =  
generate_hash(amount, time.time())
```

```
label_received.config(text=f"{money_received} ETH")  
label_prev_hash.config(text=previous_hash)  
label_curr_hash.config(text=current_hash)
```

```
label_status.config(text="Transaction Successful ")    entry_amount.delete(0,  
tk.END)
```

```
# GUI Window window = tk.Tk()  
window.title("Simple Storage Blockchain App")  
window.geometry("450x500")
```

```
# Heading tk.Label(window, text="SMART STORAGE  
BLOCKCHAIN APP",  
font=("Arial", 14, "bold")).pack(pady=10)
```

```
# Money input tk.Label(window, text="Money to  
Send").pack() entry_amount = tk.Entry(window)  
entry_amount.pack(pady=5)
```

```
# Button
tk.Button(window, text="Send Money", command=send_money).pack(pady=10)

# Display fields tk.Label(window, text="Received
Money").pack() label_received = tk.Label(window,
text="0 ETH") label_received.pack(pady=5)

tk.Label(window, text="Previous Hash").pack() label_prev_hash =
tk.Label(window, text=previous_hash, wraplength=400)
label_prev_hash.pack(pady=5)

tk.Label(window, text="Current Hash").pack() label_curr_hash =
tk.Label(window, text=current_hash, wraplength=400)
label_curr_hash.pack(pady=5)

# Status label_status = tk.Label(window,
text="") label_status.pack(pady=10)

window.mainloop()
```

OUTPUT:



