

MINI PROJECT REPORT

On

“AUTOMATED STUDENT SCORECARD GENERATOR”

Submitted for Partial Fulfilment of Award of

BACHELOR OF TECHNOLOGY

In

Computer Science & Engineering



Submitted By

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Affiliated to

Dr. APJ ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW

2022-23

BABU BANARASI DAS ENGINEERING COLLEGE

Department of Computer Science & Engineering



CERTIFICATE

Certified that the mini-project work entitled “**AUTOMATED STUDENT SCORECARD GENERATOR**”
is a bonafide work carried out by

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The report has been approved as it satisfies the academic requirements in respect of mini-project work
prescribed for the course.

Name Of Guide
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Mr. Bibhuti Bhusan



ACKNOWLEDGEMENT

I express my profound gratitude to **Mr. Bibhuti Bhusan (Assistant Professor)**, Department of Computer Science and Engineering for the valuable help and guidance in the preparation of this Report.

I would like to extend my sincere thanks to all Lab Assistants and all other staff members of B.Tech Computer Science and Engineering.

Finally I would also wish to record my gratefulness to all my friends and classmates for their help.

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DECLARATION

I hereby declare that the Mini Project entitled ("**Automated Student Scorecard Generator**") is an authentic record of my own work as Mini Project for the award of degree of B.Tech. (Computer Science and Engineering), Babu Banarasi Das Engineering College, Lucknow, under the guidance of (**Mr. Bibhuti Bhusan**).

Date: 09-12-2022
2005080100036

Dipak Yadav

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Project Application

Create a python GUI mark sheet. Where credits of each subject are given, enter the grades obtained in each subject and click on Submit. The credits per subject, the total credits as well as the SGPA are displayed after being calculated automatically. Use Tkinter to create the GUI interface.

Python offers multiple options for developing a GUI (Graphical User Interface). Out of all the GUI methods, Tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with Tkinter outputs the fastest and easiest way to create GUI applications

List of Hardware & Software used

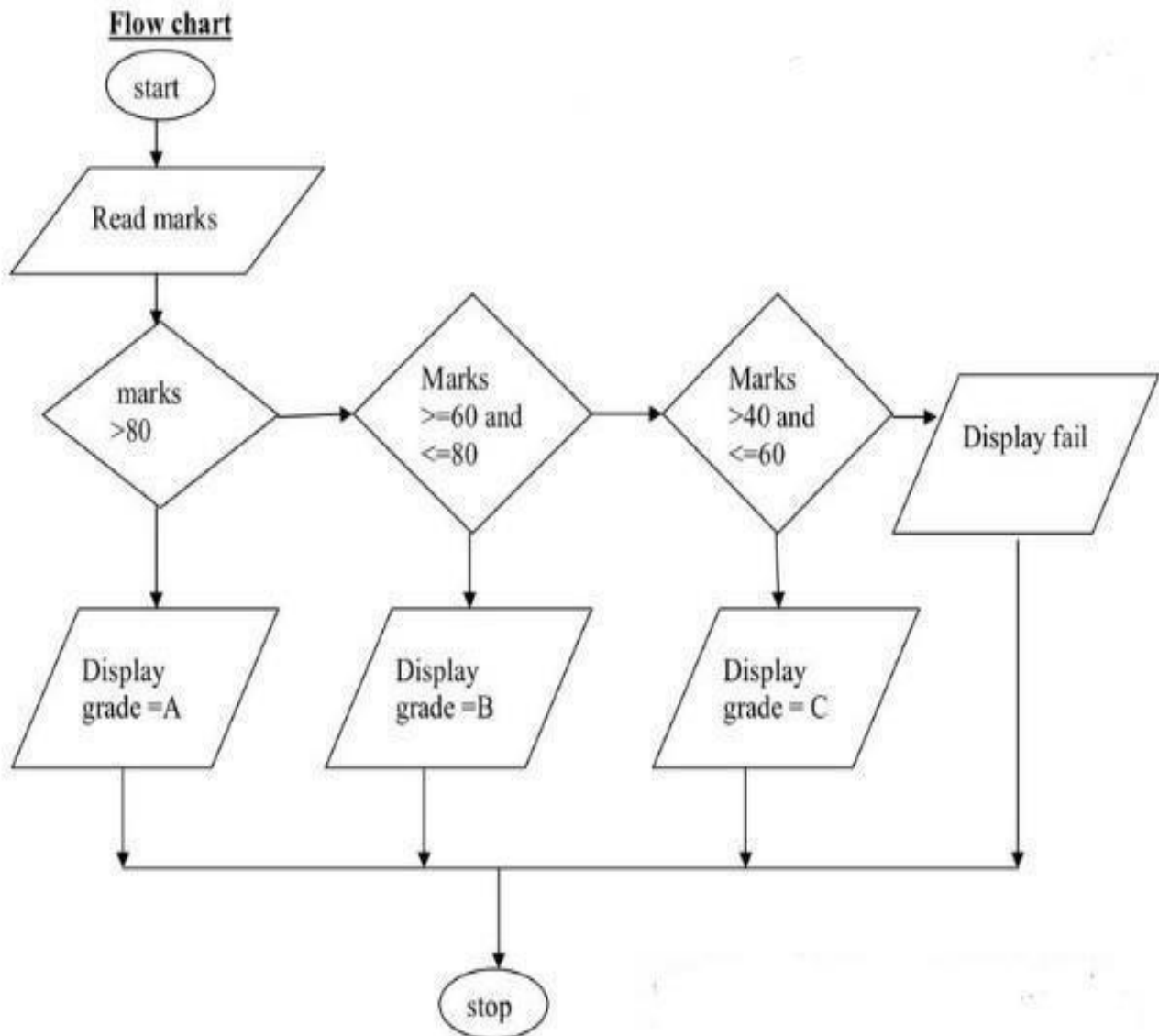
List of Hardware:

- I3 processor system minimum
- 4 GB RAM minimum
- 100 GB ROM

List of Software:

- VS Code
- Pycharm
- Jupyter Notebook

Flow chart



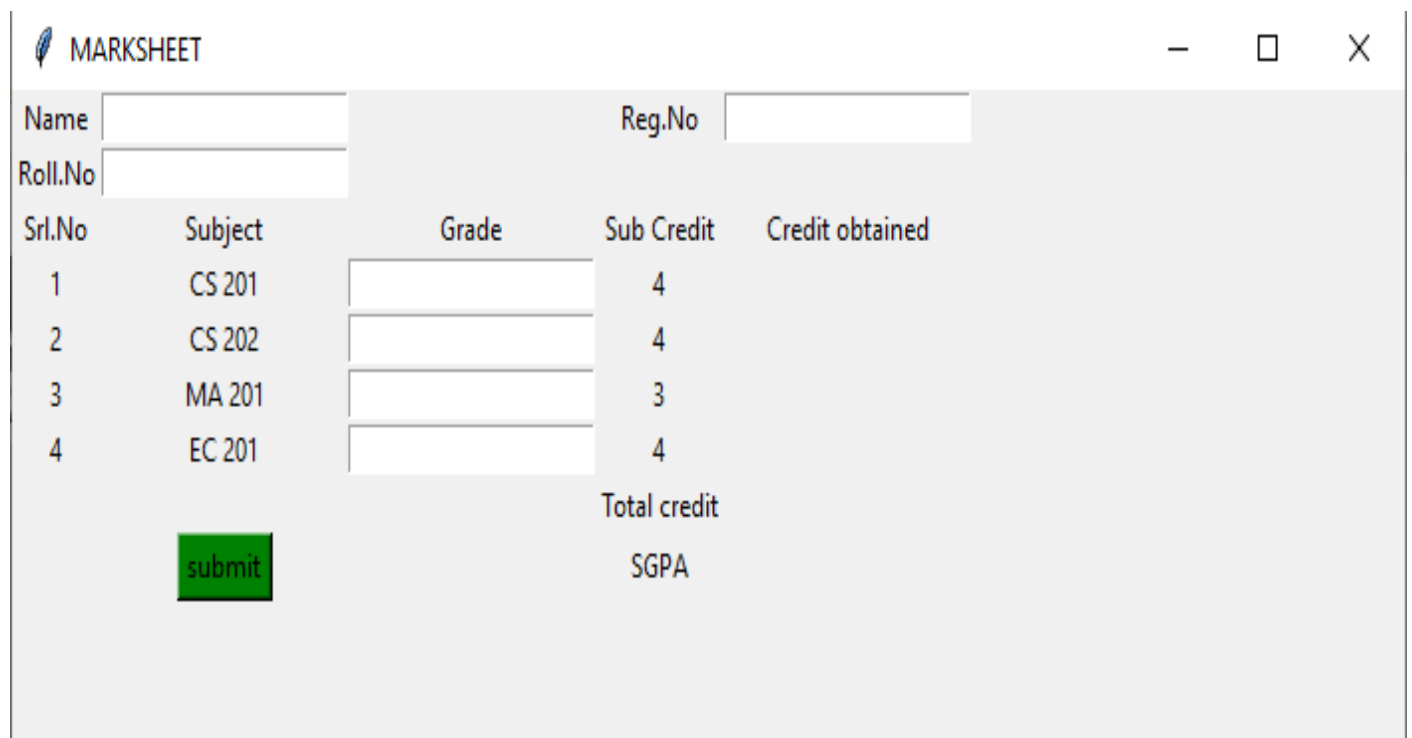
Description

Creating a GUI using Tkinter is an easy task.

To create a Tkinter :

- Importing the module – Tkinter
- Create the main window (container)
- Add any number of widgets to the main window
- Apply the event Trigger on the widgets.

This is how the GUI would look :



| Srl.No | Subject | Grade | Sub Credit | Credit obtained |
|--------|---------|----------------------|------------|-----------------|
| 1 | CS 201 | <input type="text"/> | 4 | |
| 2 | CS 202 | <input type="text"/> | 4 | |
| 3 | MA 201 | <input type="text"/> | 3 | |
| 4 | EC 201 | <input type="text"/> | 4 | |

submit

Total credit

SGPA

Codes

```
import tkinter as tk

master = tk.Tk()

master.title("MARKSHEET")

master.geometry("700x250")


e1 = tk.Entry(master)
e2 = tk.Entry(master)
e3 = tk.Entry(master)
e4 = tk.Entry(master)
e5 = tk.Entry(master)
e6 = tk.Entry(master)
e7 = tk.Entry(master)


def display():
    tot=0
    if e4.get() == "A"
    tk.Label(master, text ="40").grid(row=3, column=4)
```

tot += 40

if e4.get() == "B":

tk.Label(master, text ="36").grid(row=3, column=4)

tot += 36

if e4.get() == "C":

tk.Label(master, text ="32").grid(row=3, column=4)

tot += 32

if e4.get() == "D":

tk.Label(master, text ="28").grid(row=3, column=4)

tot += 28

if e4.get() == "P":

tk.Label(master, text ="24").grid(row=3, column=4)

tot += 24

if e4.get() == "F":

tk.Label(master, text ="0").grid(row=3, column=4)

tot += 0

```
if e5.get() == "A":  
    tk.Label(master, text="40").grid(row=4, column=4)  
    tot += 40  
  
if e5.get() == "B":  
    tk.Label(master, text="36").grid(row=4, column=4)  
    tot += 36  
  
if e5.get() == "C":  
    tk.Label(master, text="32").grid(row=4, column=4)  
    tot += 32  
  
if e5.get() == "D":  
    tk.Label(master, text="28").grid(row=4, column=4)  
    tot += 28  
  
if e5.get() == "P":  
    tk.Label(master, text="28").grid(row=4, column=4)  
    tot += 24  
  
if e5.get() == "F":  
    tk.Label(master, text="0").grid(row=4, column=4)  
    tot += 0  
  
if e6.get() == "A":
```

```
tk.Label(master, text ="30").grid(row=5, column=4)

tot += 30

if e6.get() == "B":

tk.Label(master, text ="27").grid(row=5, column=4)

tot += 27

if e6.get() == "C":

tk.Label(master, text ="24").grid(row=5, column=4)

tot += 24

if e6.get() == "D":

tk.Label(master, text ="21").grid(row=5, column=4)

tot += 21

if e6.get() == "P":

tk.Label(master, text ="28").grid(row=5, column=4)

tot += 24

if e6.get() == "F":

tk.Label(master, text ="0").grid(row=5, column=4)

tot += 0

if e7.get() == "A":

tk.Label(master, text ="40").grid(row=6, column=4)

tot += 40
```

```
if e7.get() == "B":
```

```
tk.Label(master, text="36").grid(row=6, column=4)
```

```
tot += 36
```

```
if e7.get() == "C":
```

```
tk.Label(master, text="32").grid(row=6, column=4)
```

```
tot += 32
```

```
if e7.get() == "D":
```

```
tk.Label(master, text="28").grid(row=6, column=4)
```

```
tot += 28
```

```
if e7.get() == "P":
```

```
tk.Label(master, text="28").grid(row=6, column=4)
```

```
tot += 24
```

```
if e7.get() == "F":
```

```
tk.Label(master, text="0").grid(row=6, column=4)
```

```
tot += 0
```

```
tk.Label(master, text=str(tot)).grid(row=7, column=4)
```

```
tk.Label(master, text=str(tot/15)).grid(row=8, column=4)
```

```
tk.Label(master, text="Name").grid(row=0, column=0)
```

```
tk.Label(master, text="Reg.No").grid(row=0, column=3)
tk.Label(master, text="Roll.No").grid(row=1, column=0)
tk.Label(master, text="Srl.No").grid(row=2, column=0)
tk.Label(master, text="1").grid(row=3, column=0)
tk.Label(master, text="2").grid(row=4, column=0)
tk.Label(master, text="3").grid(row=5, column=0)
tk.Label(master, text="4").grid(row=6, column=0)
tk.Label(master, text="Subject").grid(row=2, column=1)
tk.Label(master, text="CS 201").grid(row=3, column=1)
tk.Label(master, text="CS 202").grid(row=4, column=1)
tk.Label(master, text="MA 201").grid(row=5, column=1)
tk.Label(master, text="EC 201").grid(row=6, column=1)
tk.Label(master, text="Grade").grid(row=2, column=2)
e4.grid(row=3, column=2)
e5.grid(row=4, column=2)
e6.grid(row=5, column=2)
e7.grid(row=6, column=2)
tk.Label(master, text="Sub Credit").grid(row=2, column=3)
tk.Label(master, text="4").grid(row=3, column=3)
tk.Label(master, text="4").grid(row=4, column=3)
```

```
tk.Label(master, text="3").grid(row=5, column=3)
tk.Label(master, text="4").grid(row=6, column=3)
tk.Label(master, text="Credit obtained").grid(row=2, column=4)
e1=tk.Entry(master)
e2=tk.Entry(master)
e3=tk.Entry(master)
e1.grid(row=0, column=1)
e2.grid(row=0, column=4)
e3.grid(row=1, column=1)
button1=tk.Button(master, text="submit", bg="green", command=display)
button1.grid(row=8, column=1)
tk.Label(master, text="Total credit").grid(row=7, column=3)
tk.Label(master, text="SGPA").grid(row=8, column=3)
master.mainloop()
```


List of References

- <https://www.geeksforgeeks.com/>
- <https://www.python.org/>
- <https://wikipedia.com/>