MAHARASHTRA STATE BOARD
OF TECHNICAL EDUCATION, MUMBAI.

Government Polytechnic, Osmanabad

Microproject Title

"Text Translator Using Python"

Submitted By

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In Guidance of,

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Submitted to

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2021-22.

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CERTIFICATE

This is certified that, the microproject entitled **Text Translator Using Python** Submitted by **Mr. Mohite Dipak Balu** Roll Number **35** of **Sixth** Semester of Diploma in **Computer Engineering (CO)** has completed satisfactory in the course **Programming with Python (22616)** for academic year **2021-22** as prescribed in the curriculum.

Date : / /
Place : **Osmanabad**

Enrolment No : **1901180310**
Exam Seat No : **292506**

Institute Seal

Lecturer **Principal** **Head of Department**

Acknowledgement

- I take it as an opportunity to thank to all those who have directly and indirectly inspired, directed and assisted me towards successful completion of this project report.

- I express my sincere thanks to principal **Prof. S. L. Andhare sir** and Head of Department **Prof. P. J. Bansode sir** for having me allowed to submit this "Text Translator Using Python" report as part of my academics learning.

- I express my sincere thanks to **Prof. A. B. Gaikwad sir** lecturer in Computer Engineering department of Government Polytechnic Osmanabad for encouragement throughout project report and guideline in designing and working out of this project…!

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1.0 Rationale

Python is powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python code is simple, short, readable, intuitive, and powerful, and thus it is effective for introducing computing and problem solving to beginners. It's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

2.0 Course Outcome Achieved

- Display message on screen using Python script on IDE.
- Develop python program to demonstrate use of Operators
- Perform operations on data structures in Python.
- Develop functions for given problem.
- Design classes for given problem.
- Handle exceptions.
- Develop a python application with a real-world use.

3.0 Actual Methodology Followed

3.1. Program Code

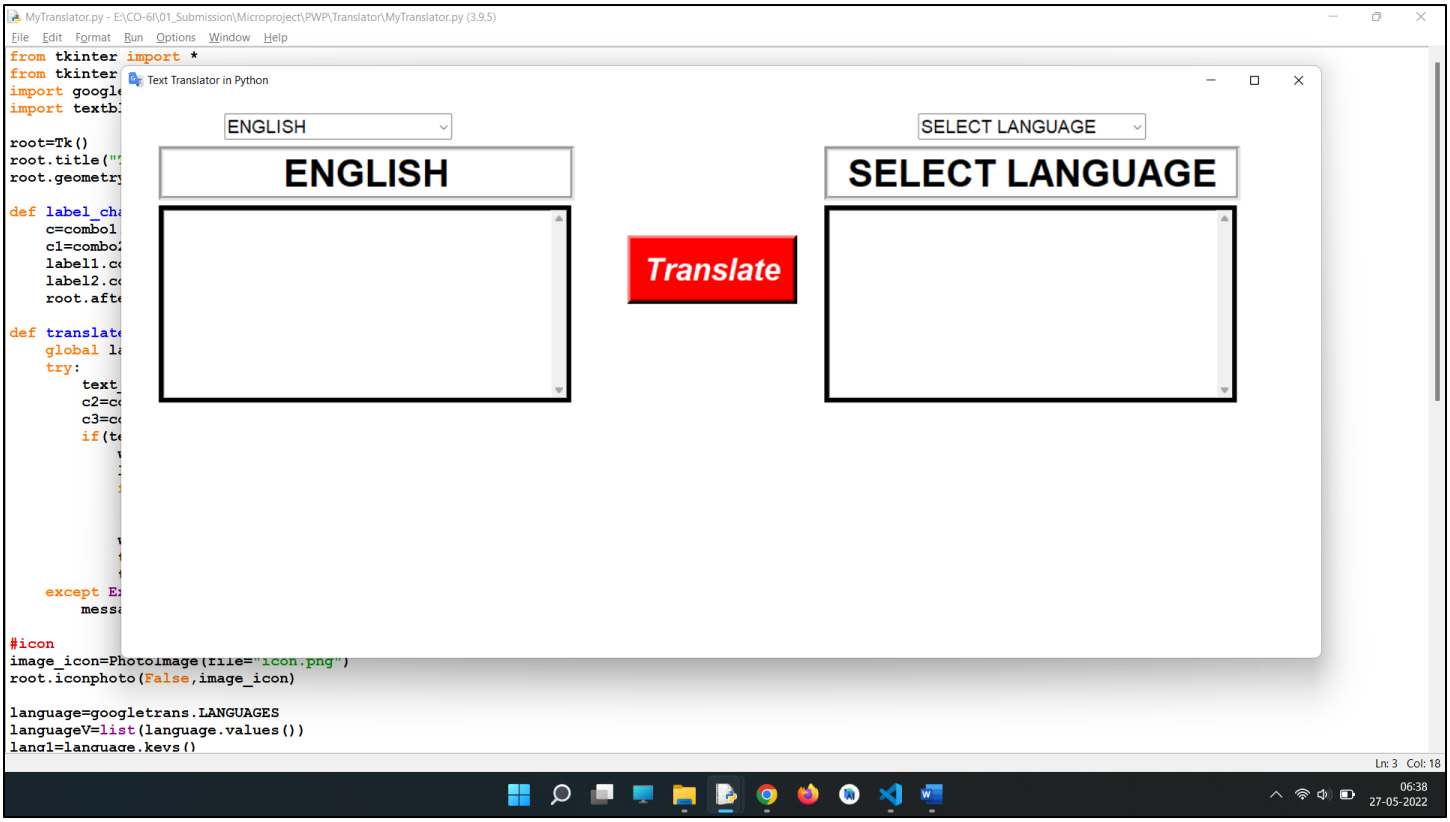
```
from tkinter import *
from tkinter import ttk, messagebox
import googletrans
import textblob

root=Tk()
root.title("Text Translator in Python")
root.geometry("1280x600")

def label_change():
    c=combo1.get()
    c1=combo2.get()
    label1.configure(text=c)
    label2.configure(text=c1)
    root.after(1000,label_change)

def translate_now():
    global language
    try:
        text_=text1.get(1.0,END)
        c2=combo1.get()
        c3=combo2.get()
        if(text_):
            words=textblob.TextBlob(text_)
            lan=words.detect_language()
            for i,j in language.items():
                if(j==c3):
                    lan_=i
            words=words.translate(from_lang=lan,to=str(lan_))
```

```
            text2.delete(1.0,END)
            text2.insert(END,words)
    except Exception as e:
        messagebox.showerror("googletrans",e)

#icon
image_icon=PhotoImage(file="icon.png")
root.iconphoto(False,image_icon)

language=googletrans.LANGUAGES
languageV=list(language.values())
lang1=language.keys()

#Field1
combo1=ttk.Combobox(root,values=languageV,font="Roboto 14",
state="r")
combo1.place(x=110,y=20)
combo1.set("ENGLISH")
label1=Label(root,text="ENGLISH",width="18", font="segoe 30
bold", bg="white",bd=5,relief=GROOVE)
label1.place(x=40,y=55)
f=Frame(root,bg="Black",bd=5)
f.place(x=40,y=118,width=440,height=210)
text1=Text(f,font="Roboto 20", bg="white", relief=GROOVE,
wrap=WORD)
text1.place(x=0,y=0,width=430,height=200)
scrollbar1=Scrollbar(f)
scrollbar1.pack(side="right", fill="y")
scrollbar1.configure(command=text1.yview)
text1.configure(yscrollcommand=scrollbar1.set)

#Field2
```

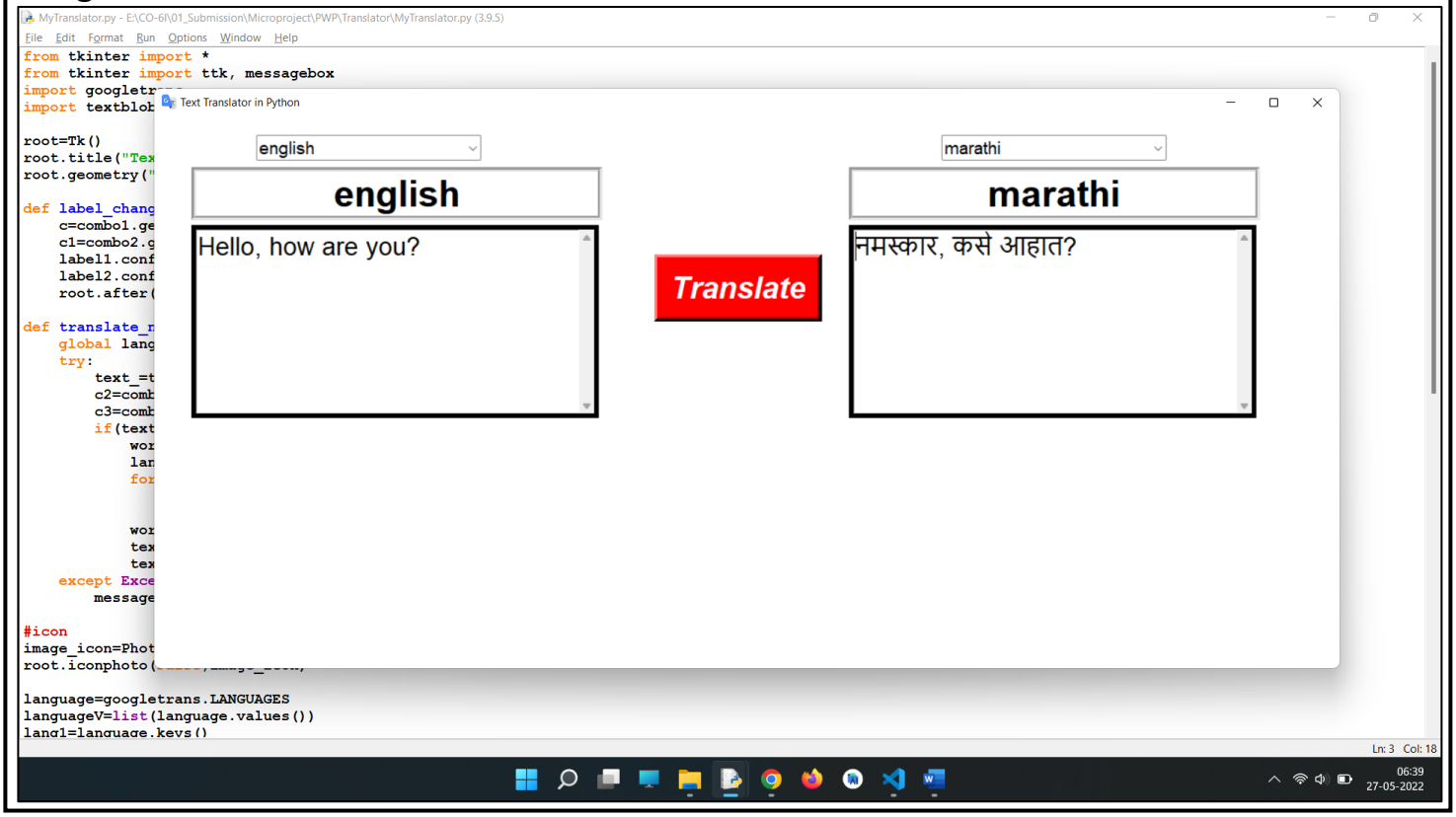
```
combo2=ttk.Combobox(root,values=languageV,font="Roboto 14",
state="r")
combo2.place(x=850,y=20)
combo2.set("SELECT LANGUAGE")
label2=Label(root,text="ENGLISH",width="18", font="segoe 30
bold", bg="white",bd=5,relief=GROOVE)
label2.place(x=750,y=55)
f1=Frame(root,bg="Black",bd=5)
f1.place(x=750,y=118,width=440,height=210)
text2=Text(f1,font="Roboto 20", bg="white", relief=GROOVE,
wrap=WORD)
text2.place(x=0,y=0,width=430,height=200)
scrollbar2=Scrollbar(f1)
scrollbar2.pack(side="right", fill="y")
scrollbar2.configure(command=text2.yview)
text2.configure(yscrollcommand=scrollbar2.set)

#translate button
translate=Button(root,text="Translate",font="Roboto 25 bold
italic",
                 activebackground="orange",bd=5,bg="red",fg="whit
e",
                 command=translate_now)
translate.place(x=540,y=150)

label_change()

root.configure(bg="white")
root.mainloop()
```

4.Outputs of the Micro-Projects

Start Screen:

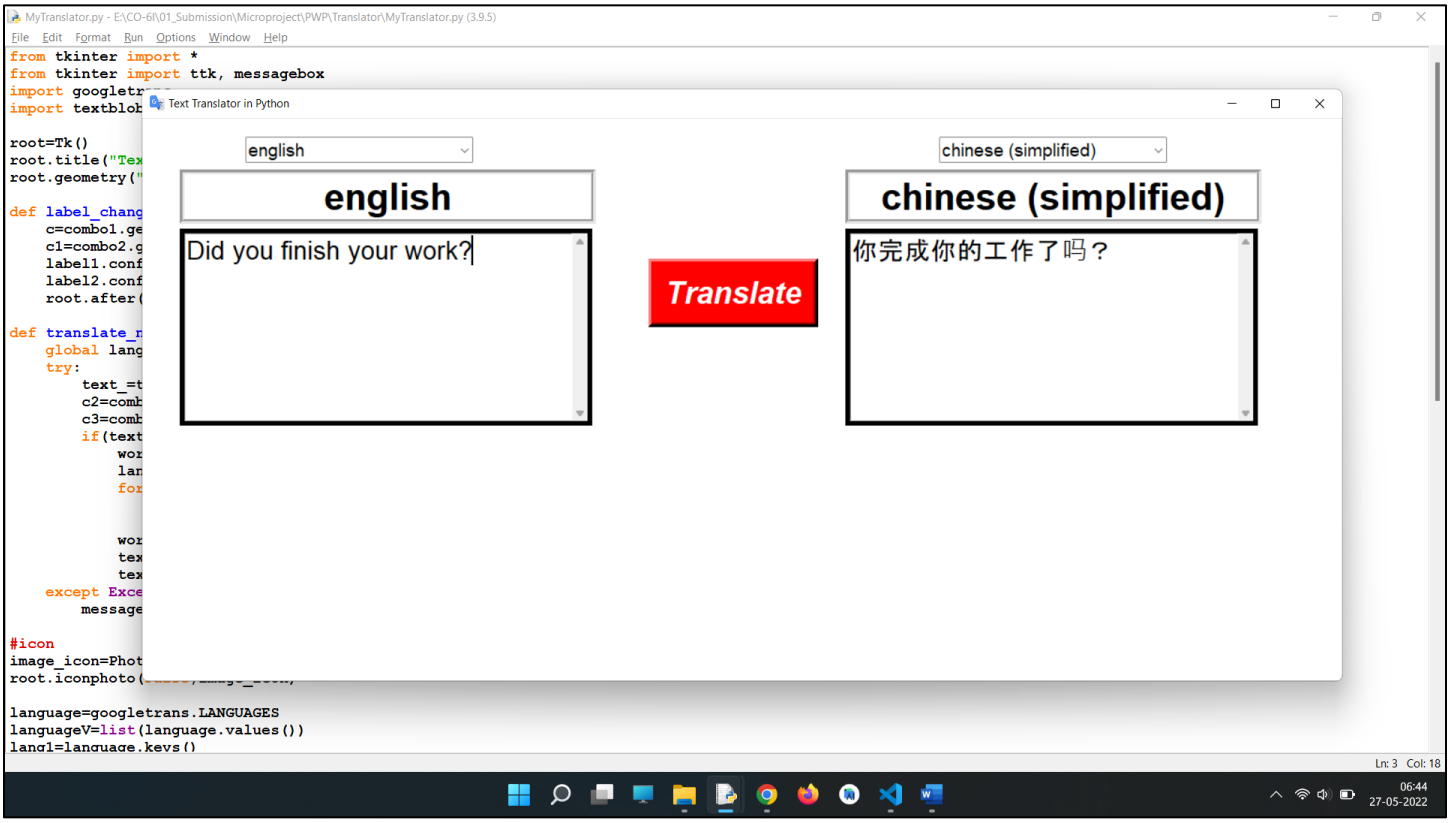


English to Marathi:

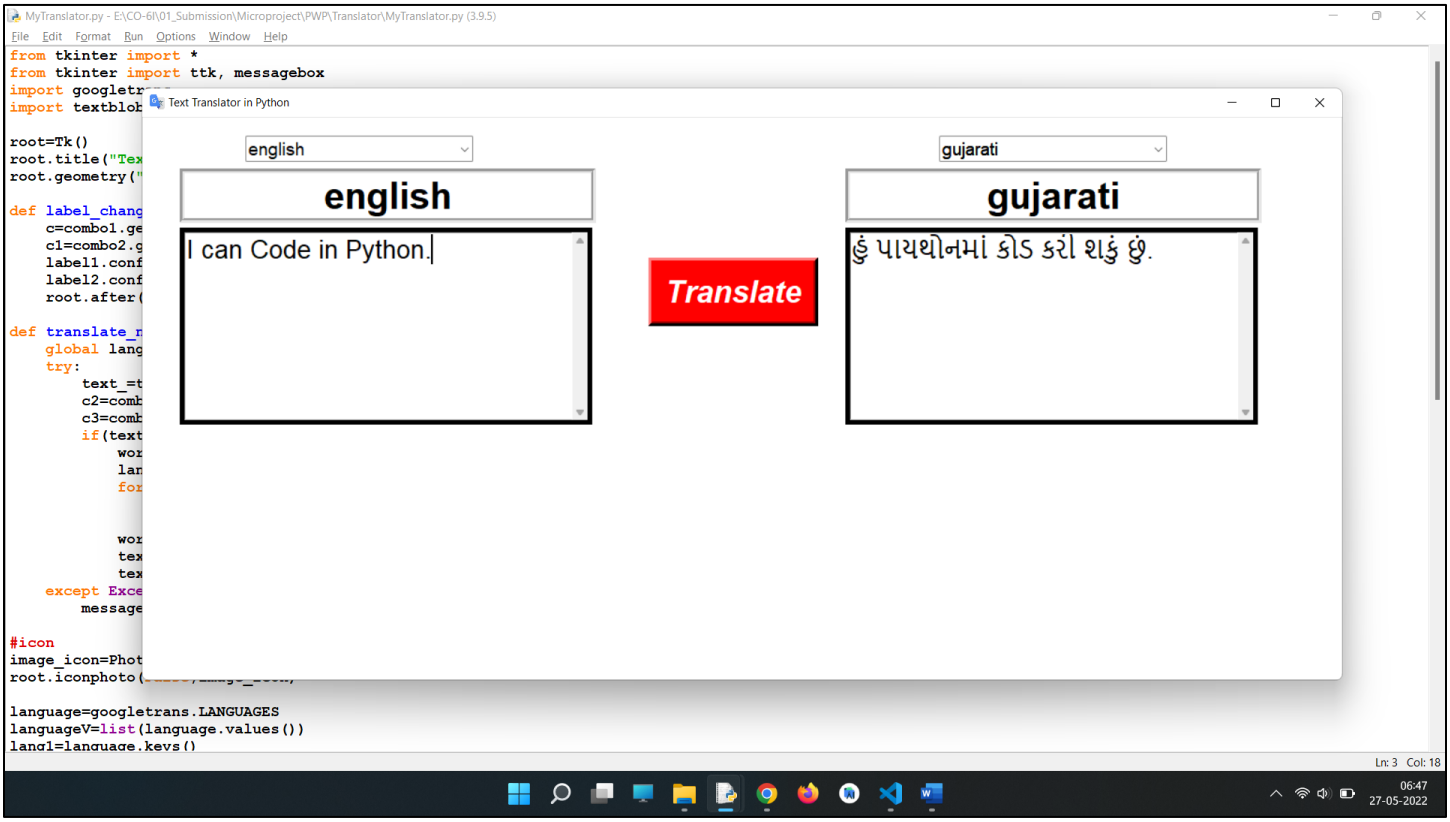


Marathi to Spanish:

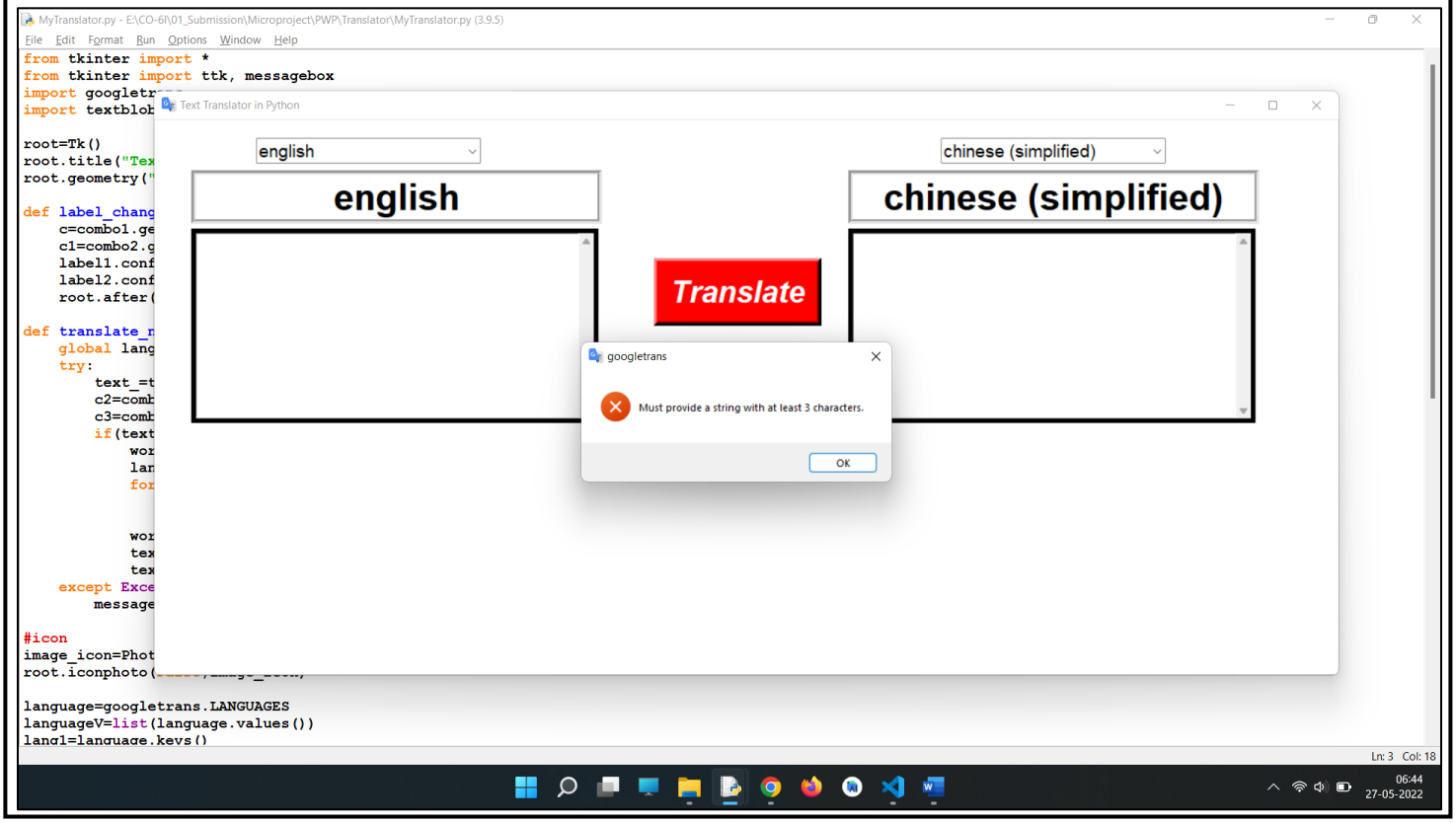
English to Chinese:



English to Gujarati:



If you don’t have enter minimum 3 characters it will show warning message:



5.0 Actual Resources Used

Sr. No.	Name of Resource	Specification	Quantity
1.	Computer System	Intel Core-i3 10th gen with 4GB RAM, 512GB SSD	01
2.	Operating System	Windows 11	01
3.	Software	Python IDLE	01
4.	Book	Programming With Python	01
5.	Internet	Different Study Websites	01

5.0 Skill Developed / Learning Outcome of the Micro-Project

- After completion of this microproject now I am able to create my own Python applications for different purposes.
- I have seen some improvements in myself after implementing this project that are creating Python applications.
- This project helped me in preparation semester exams.
- This project helped me to understand Different UI Components in Python.
- I have studied the proper use of events methods for handling the events on the buttons.

6.0 Applications of the Micro-Project

- This microproject is as similar to a real Google Translator.
- Using this project, you can translate from any language to any language available in the world.
- This is very similar to a translator that we use in our daily activity that is Google Translator.
- This application is very user friendly to user of any type without any using guide.
- Simple user Interface is developed, which helps user to translate their text very simply.

8. Conclusion

After successful completion of this microproject entitled "Text Translator Using Python" I conclude that Now I am able to create a proper working python application. In this microproject we have developed a Text Translator which can be used as a real-world Translator.

At this time of conclusion, I Thank all those we have helped me in the successful completion of this project. All those who have helped me during this project completion are mentioned in references section. Thank you all!

9. References

1. **Books:**
   i. Python Programming – Rao, K. Nageshwara, Shaikh Akbar
   ii. Learning Python – Lutz, Mark
   iii. Python Essential Reference – Bazley, David
   iv. Head First Python 2nd Edition – Paul, Barry
2. **MSBTE Lab Manual: PWP (22616)**
3. **Programming with Python subject Teacher: Prof. A. B. Gaikwad sir**
4. **Python Video Tutorials form YouTube**
5. **Resources from Internet:**
   a. https://docs.python.org/3/tutorial/
   b. https://www.w3schools.com/python/
   c. https://www.w3schools.com/python/
   d. https://www.programiz.com/python-programming
   e. https://www.pythontutorial.net/
   f. https://www.javatpoint.com/python-tutorial
   g. https://www.educative.io/edpresso/how-do-you-translate-text-using-python
   h. https://www.tutorialspoint.com/python_text_processing/python_text_translation.htm

Thank You