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(Department of computer science and engineering)

Project on currency converter

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Semester : 3



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ABSTRACT:

1. In finance, an exchange rate between two currencies is the rate at which one currency will be exchanged for another.
2. It is a useful tool which gives us the value of certain amount of one currency to be converted into a different currency.
3. It is also regarded as the value of one country's currency in terms of another currency.
4. In this project we are going to display a web window in which currency options are given and the conversion value is displayed in the next window



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INTRODUCTION:

- 1.Currency converter is a tool used to convert one country's currency to another.
- 2.In this project by the knowledge of usage of currency converter a program is designed in java language.
- 3.In this Currency Converter application, it is going to display a web page where u can choose to display the converter or the exchange rate of one currency with all other currencies in the form of table. In the converter u are given a choice to choose two currency names from the list of currency names displayed.



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ALGORITHM

Step1: Start

Step2: Enter the amount value in rupees

Step3: Select the currency from choice

Step4: Click on the convert button

Step5: The value will be displayed



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CODING:

```
from tkinter import *  
from tkinter import ttk
```

```
converter = Tk()  
converter.title("unit converter")  
converter.geometry("600x400")
```



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OPTIONS = {

"Australian Dollar":0.0184,

"Brazilian Real":0.0731,

"British Pound":0.01,

"Chinese Yuan":0.086,

"Euro":0.0116,

"HongKong Dollar":0.1049,

"Indonesian Rupiah":192.2143,

"Japanese Yen":1.5314,

"Pakistani Rupee":2.338,

"SriLankan Rupee":2.7182,

"Swiss Franc":0.0124,

"Us Dollar":0.0135

}



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```
def ok():  
    price = rupees.get()  
    answer = variable1.get()  
    DICT = OPTIONS.get(answer,None)  
    converted = float(DICT)*float(price)  
    result.delete(1.0,END)  
    result.insert(INSERT,"Price in ",INSERT,answer,INSERT," = ",INSERT,converted)  
appName = Label(converter,text="Currency Converter",font=("times new roman",25,"bold","underline"),fg="dark orange")  
appName.place(x=150, y=10)  
  
result = Text(converter,height=5,width=50,font=("arial",10,"bold"),bd=5,fg="black")  
result.place(x=125, y=60)
```

```
india = Label(converter,text="Value in indian Rupees:",font=("times new roman",10,"bold"),fg="black")
india.place(x=30, y=165)
```

```
rupees = Entry(converter,font=("times new roman",20))
rupees.place(x=200, y=160)
```

```
choice = Label(converter,text="Choice:",font=("times new roman",10,"bold"),fg="black")
choice.place(x=30, y=220)
```

```
variable1 = StringVar(converter)
variable1.set(None)
option = OptionMenu(converter,variable1,*OPTIONS,)
option.place(x=100 , y=210,width=100, height=40)
```

```
button = Button(converter,text="Convert",fg="green",font=("times new roman",20),bg="powder blue",command=ok)
button.place(x=200, y=210,height=40,width=150)
```

```
converter.mainloop()
```

Get Started currency converter.py ×

▶ ▾ □ ...

C: > Users > jaswa > currency converter.py > ...

```
1  from tkinter import *
2  from tkinter import ttk
3
4
5  converter = Tk()
6  converter.title("unit converter")
7  converter.geometry("600x400")
8
9  OPTIONS = {
10     "Australian Dollar":0.0184,
11     "Brazilian Real":0.0731,
12     "British Pound":0.01,
13     "Chinese Yuan":0.086,
14     "Euro":0.0116,
15     "HongKong Dollar":0.1049,
16     "Indonesian Rupiah":192.2143,
17     "Japanese Yen":1.5314,
18     "Pakistani Rupee":2.338,
19     "SriLankan Rupee":2.7182,
20     "Swiss Franc":0.0124,
21     "Us Dollar":0.0135
22     |    }
23
24  def ok():
25     price = rupees.get()
26     answer = variable1.get()
27     DICT = OPTIONS.get(answer,None)
28     converted = float(DICT)*float(price)
29     result.delete(1.0,END)
30     result.insert(INSERT,"Price in ",INSERT,answer,INSERT," = ",INSERT,converted)
31     varName = Label(converter,text="Currency Converter",font=("times new roman",25,"bold","underline"),fg="dark orange")
```


Visual Studio Code interface showing a Python script named `currency converter.py` in the editor. The script is a Tkinter-based currency converter application.

```
C:\> Users > jaswa > currency converter.py > ...
28     converted = float(DICT)*float(price)
29     result.delete(1.0,END)
30     result.insert(INSERT,"Price in ",INSERT,answer,INSERT," = ",INSERT,converted)
31     appName = Label(converter,text="Currency Converter",font=("times new roman",25,"bold","underline"),fg="dark orange")
32     appName.place(x=150, y=10)
33
34
35     result = Text(converter,height=5,width=50,font=("arial",10,"bold"),bd=5,fg="black")
36     result.place(x=125, y=60)
37
38     india = Label(converter,text="Value in indian Rupees:",font=("times new roman",10,"bold"),fg="black")
39     india.place(x=30, y=165)
40
41     rupees = Entry(converter,font=("times new roman",20))
42     rupees.place(x=200, y=160)
43
44     choice = Label(converter,text="Choice:",font=("times new roman",10,"bold"),fg="black")
45     choice.place(x=30, y=220)
46
47     variable1 = StringVar(converter)
48     variable1.set(None)
49     option = OptionMenu(converter,variable1,*OPTIONS,)
50     option.place(x=100 , y=210,width=100, height=40)
51
52     button = Button(converter,text="Convert",fg="green",font=("times new roman",20),bg="powder blue",command=ok)
53     button.place(x=200, y=210,height=40,width=150)
54
55
56     converter.mainloop()
```

The status bar at the bottom indicates the environment is Python 3.7.6 64-bit, and the current position is Ln 49, Col 51. The system tray shows the date and time as 08:43.



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unit converter

Currency Converter

Price in Us Dollar = 1.35

Value in indian Rupees:

Choice:



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References:-

www.tutorialspoint.com

www.w3school.com

www.greeksforgreeks.com

Book:- Programming and problem Solving with PYTHON

(Ashok Namdev Kamthane and Amit Ashok Kamthane) (Mc Graw Hill publication)