**Minor Project**

**OM STERLING GLOBAL UNIVERSITY**

**HISAR, HARYANA**

**125005**

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**Submitted To- Submitted By-**

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**Synopsis**

I Shreynit Chawla of OSGU from B-Tech 7th Sem, here by presents this Synopsis on the Minor Project which I Created in the year of 2023-24 for my university. This project is about the Python program called Currency Convertor, it’s a variable program which changes according to the prevailing rate of the Currency. With the help of this program the user can convert the currency rate of the currency through the world, buy using the API key which is taken from the API key generator website, so that we can stay update towards the currency though out the world.

This program works like this, if the user wants to check the exchange rate between any two country they will enter the abstract(USD TO INR) for one country and then put in the second abstract for the other country, and after this they will put in the amount that they want to change which will give them there Currency exchange rate and it will be up to the current world rate in the circulation. The user can check for the abstract for different which has been provided by me down below.

Currency Converter Python

import requests

def convert\_curr():

init\_currency = input("Enter the initial currency: ")

target\_currency = input("Enter the target currency: ")

while True:

try:

amount = float(input('Enter the amount: '))

except:

print('The amount needs to be numeric')

continue

if not amount > 0:

print('Amount needs to be greater than 0')

continue

else:

break

url = f"https://api.apilayer.com/fixer/convert?to={target\_currency}&from={init\_currency}&amount={amount}"

payload = {}

headers= {

"apikey": "API-KEY"

}

response = requests.request("GET", url, headers=headers, data = payload)

status\_code = response.status\_code

if status\_code != 200:

result = response.json()

print('Error response: ' + str(result))

quit()

result = response.json()

print('Conversion Result: ' + str(result['result']))

if \_\_name\_\_ == '\_\_main\_\_':

convert\_curr()

input(“press enter to exit…”)

**Working**

This Program works in a simple way we use an API key which has been taken from the API key website and simply putting it on the code will make it active and working. With the API key entered in the code the we just have to input another command to make not exit out of terminal so that we can view our output, this command has to be entered at the end of the or it will not work and the terminal will simply close and will not show our output. But first we need to import request from the terminal, to import request from the terminal will simply type(pip install request) in the terminal which will import the request lib required for the program. After all of these process has been done by the programmer we will test its working just by simply pressing F5 key and giving the required information like USD-INR and the amount we want to convert like(100) which will show us the output at the end with the difference in the currency rate between the two country.

Country’s With There Currency and Its Abbreviations

## European Currencies

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Country or Territory** | **Name of currency** | | **Currency acronym** | | | Albania | | Albanian lek | | **ALL** | | Andorra | | Euro | | **EUR** | | Austria | | Euro | | **EUR** | | Belarus | | Belarus ruble | | **BYN** | | Belgium | | Euro | | **EUR** | | Bosnia and Herzegovina | | Bosnia mark | | **BAM** | | Bulgaria | | Bulgaria lev | | **BGN** | | Croatia | | Croatia kuna | | **HRK** | | Czech Republic | | Czech koruna | | **CZK** | | Denmark | | Denmark krone | | **DKK** | | Estonia | | Euro | | **EUR** | | Finland | | Euro | | **EUR** | | France | | Euro | | **EUR** | | Germany | | Euro | | **EUR** | | Greece | | Euro | | **EUR** | | Hungary | | Hungary forint | | **HUF** | | Iceland | | Iceland krona | | **ISK** | | Ireland | | Euro | | **EUR** | | Italy | | Euro | | **EUR** | | Kosovo | | Euro | | **EUR** | | Latvia | | Euro | | **EUR** | | Liechtenstein | | Switzerland franc | | **CHF** | | Lithuania | | Euro | | **EUR** | | Luxembourg | | Euro | | **EUR** | | Malta | | Euro | | **EUR** | | Moldova | | Moldova leu | | **MDL** | | Monaco | | Euro | | **EUR** | | Montenegro | | Euro | | **EUR** | | Netherlands | | Euro | | **EUR** | | North Macedonia | | Macedonia denar | | **MKD** | | Norway | | Norway kroner | | **NOK** | | Poland | | Poland zloty | | **PLN** | | Portugal | | Euro | | **EUR** | | Romania | | Romania new lei | | **RON** | | San Marino | | Euro | | **EUR** | | Serbia | | Serbia dinar | | **RSD** | | Slovakia | | Euro | | **EUR** | | Slovenia | | Euro | | **EUR** | | Spain | | Euro | | **EUR** | | Sweden | | Sweden krona | | **SEK** | | Switzerland | | Switzerland franc | | **CHF** | | Ukraine | | Ukraine hryvnia | | **UAH** | | United Kingdom (UK) | | Pound sterling | | **GBP** | | Vatican City (Holy See) | | Euro | | **EUR** | |

## African Currencies

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| |  |  |  | | --- | --- | --- | | **Country or Territory** | **Name of currency** | **Currency acronym** | | Angola | Angolan kwanza | **AOA** | | Benin | West African CFA franc | **XOF** | | Botswana | Botswana pula | **BWP** | | Burkina Faso | West African CFA franc | **XOF** | | Burundi | Burundi franc | **BIF** | | Cameroon | Central African CFA franc | **XAF** | | Cape Verde | Cape Verdean escudo | **CVE** | | Central African Republic | Central African CFA franc | **XAF** | | Chad | Central African CFA franc | **XAF** | | Comoros | Comorian franc | **KMF** | | Republic of the Congo | Central African CFA franc | **XAF** | | Democratic Republic of the Congo | Congolese franc | **CDF** | | Djibouti | Djiboutian franc | **DJF** | | Equatorial Guinea | Central African CFA franc | **XAF** | | Eritrea | Eritrean nakfa | **ERN** | | Eswatini | Lilangeni | **SZL** | | Ethiopia | Ethiopian birr | **ETB** | | Gabon | Central African CFA franc | **XAF** | | Gambia | Dalasi | **GMD** | | Ghana | Ghanaian cedi | **GHS** | | Guinea | Guinean franc | **GNF** | | Guinea-Bissau | West African CFA franc | **XOF** | | Ivory Coast | West African CFA franc | **XOF** | | Kenya | Kenyan shilling | **KES** | | Lesotho | Lesotho loti | **LSL** | | Liberia | Liberian dollar | **LRD** | | Libya | Libyan dinar | **LYD** | | Madagascar | Malagasy ariary | **MGA** | | Malawi | Malawian kwacha | **MWK** | | Mali | West African CFA franc | **XOF** | | Mauritania | Ouguiya | **MRO** | | Mauritius | Mauritian rupee | **MUR** | | Mozambique | Mozambican metical | **MZN** | | Namibia | Namibian dollar | **NAD** | | Niger | West African CFA franc | **XOF** | | Nigeria | Nigerian naira | **NGN** | | Rwanda | Rwandan franc | **RWF** | | Sao Tome and Principe | São Tomé and Príncipe dobra | **STD** | | Senegal | West African CFA franc | **XOF** | | Seychelles | Seychellois rupee | **SCR** | | Sierra Leone | Sierra Leonean leone | **SLL** | | Somalia | Somali shilling | **SOS** | | South Africa | South African rand | **ZAR** | | Togo | West African CFA franc | **XOF** | | Uganda | Ugandan shilling | **UGX** | | Zambia | Zambian kwacha | **ZMW** | | Zimbabwe | RTGS dollar | **ZBN** | |

## Asian Currencies

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| |  |  |  | | --- | --- | --- | | Bangladesh | Taka | **BDT** | | Bhutan | Bhutanese ngultrum | **BTN** | | Brunei | Brunei dollar | **BND** | | Cambodia | Cambodian riel | **KHR** | | China | Renminbi (yuan) | **CNY** | | India | Indian rupee | **INR** | | Indonesia | Rupiah | **IDR** | | Japan | Yen | **JPY** | | Laos | Lao kip | **LAK** | | Macau | Macanese pataca | **MOP** | | Malaysia | Ringgit | **MYR** | | Maldives | Maldivian rufiyaa | **MVR** | | Mongolia | Mongolia tögrög | **MNT** | | Myanmar | Kyat | **MMK** | | Nepal | Nepalese rupee | **NPR** | | North Korea | North Korean won | **KPW** | | Philippines | Philippine peso | **PHP** | | Russia | Russian ruble | **RUB** | | Singapore | Singapore dollar | **SGD** | | South Korea | South Korean won | **KRW** | | Sri Lanka | Sri Lankan rupee | **LKR** | | Taiwan | New Taiwan dollar | **TWD** | | Thailand | Baht | **THB** | | Timor-Leste | US Dollar | **USD** | | Vietnam | Vietnamese dong | **VND** | |

## Australasia/Oceania Currencies

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| |  |  |  | | --- | --- | --- | | **Country or Territory** | **Name of currency** | **Currency abbreviation** | | American Samoa | US dollar | **USD** | | Australia | Australian dollar | **AUD** | | Federated States of Micronesia | US dollar | **USD** | | Fiji | Fijian dollar | **FJD** | | Cook Islands | New Zealand dollar | **NZD** | | French Polynesia | CFP franc | **XPF** | | Guam | US dollar | **USD** | | Kiribati | Australian dollar | **AUD** | | Marshall Islands | US dollar | **USD** | | Nauru | Australian dollar | **AUD** | | New Caledonia | CFP franc | **XPF** | | New Zealand | New Zealand dollar | **NZD** | | Niue | New Zealand dollar | **NZD** | | Norfolk Island | Australian dollar | **AUD** | | Northern Mariana Islands | US dollar | **USD** | | Palau | US dollar | **USD** | | Papua New Guinea | Papua New Guinean kina | **PGK** | | Pitcairn Islands | New Zealand dollar | **NZD** | | Samoa | Samoan tala | **WST** | | Solomon Islands | Solomon Islands dollar | **SBD** | | Tokelau | New Zealand dollar | **NZD** | | Tonga | Tongan pa’anga | **TOP** | | Tuvalu | Australian dollar | **AUD** | | Vanuatu | Vanuatu vatu | **VUV** | | Wake Island | US dollar | **USD** | | Wallis and Futuna | CFP franc | **XPF** | |

## Middle Eastern Currencies

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| |  |  |  | | --- | --- | --- | | **Country or Territory** | **Currency name** | **Currency acronym** | | Algeria | Algerian dinar | **DZD** | | Afghanistan | Afghan afghani | **AFN** | | Armenia | Armenian dram | **AMD** | | Azerbaijan | Azerbaijani manat | **AZN** | | Bahrain | Bahraini dinar | **BHD** | | Cyprus | Euro | **EUR** | | Egypt | Egyptian pound | **EGP** | | Georgia | Lari | **GEL** | | Iran | Iranian rial | **IRR** | | Iraq | Iraqi dinar | **IQD** | | Israel | Israeli new shekel | **ILS** | | Jordan | Jordanian dinar | **JOD** | | Kazakhstan | Kazakhstani tenge | **KZT** | | Kyrgyzstan | Kyrgyzstani som | **KGS** | | Kuwait | Kuwaiti dinar | **KWD** | | Lebanon | Lebanese pound | **LBP** | | Morocco | Moroccan dirham | **MAD** | | Oman | Omani rial | **OMR** | | Pakistan | Pakistani rupee | **PKR** | | Palestine | Israeli new shekel | **ILS** | | Qatar | Qatari riyal | **QAR** | | Saudi Arabia | Saudi riyal | **SAR** | | Syria | Syrian pound | **SYP** | | Tajikistan | Somoni | **TJS** | | Tunisia | Tunisian dinar | **TND** | | Turkey | Turkish Lira | **TRY** | | Turkmenistan | Turkmenistan manat | **TMM** | | United Arab Emirates (UAE) | UAE dirham | **AED** | | Uzbekistan | Uzbekistan som | **UZS** | | Yemen | Yemeni rial | **YER** | |

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