

Project to make a currency Converter

PROJECT OF INT108

COMPUTER SCIENCE AND ENGINEERING

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Project 8: Your task is to build a currency converter that will allow you to convert currencies from one unit to another, such as converting Indian rupee into pounds, euros, US dollar, Canadian dollar, Chinese yuan, Russia's Rubal, etc. or vice versa. In this project build a TUI (Text based user interface), where you will enter the source currency to be converted and conversion rate. And after conversion display the amount in the target currency. (Student is free to decide the input and output layout for this mini project)

SOURCE CODE

```
# Project to make a currency Converter

currency={"USD":81,"EUR":84,"INR":1,"POUND":101,"CAD":60,"CNY":11,"RUB":2} # Add more currency here

def isValid(n,currency):
    if n in currency.keys():
        return True
    return False

def isValidAmount(n):
    s="0123456789."
    for i in n:
        if i not in s:
            return False
    return True

def convert(c1,a,c2):
    if(c2=="INR"):
        print("The Currency After Converting into %s is"%c2,(amount*currency[c1]))
    elif(c1=="INR"):
```

```
    print("The Currency After Converting into %s  
is"%c2,(amount/currency[c2]))
```

```
else:
```

```
    print("The Currency After Converting into %s  
is"%c2,(amount/currency[c1])*currency[c2])
```

```
print(" ----- ")
```

```
print("| Welcome To Currency Converter |")
```

```
print(" ----- \n")
```

```
print("We have the following Currency that can be converted")
```

```
for i in currency.keys():
```

```
    print(i,end=" ")
```

```
print("\n")
```

```
c1=input("Enter The Currency: ").upper() #The Currency given
```

```
if isValid(c1,currency):
```

```
    c2=input("Enter The Currency you want to convert to: ").upper()
```

```
    if isValid(c2,currency):
```

```
        amount=input("Enter The Amount: ") # The amount in the given  
currency
```

```
        if isValidAmount(amount):
```

```
if amount.count(".")==0 or amount.count(".")==1:
```

```
    amount=float(amount)
```

```
    convert(c1,amount,c2)
```

```
else:
```

```
    print("Invalid Amount")
```

```
else:
```

```
    print("Invalid Amount")
```

```
else:
```

```
    print("Sorry the Currency that you were trying to convert is not  
available")
```

```
else:
```

```
    print("Sorry we don't convert this Currency")
```

```
# The currency you want to covert the amountUSD
```

```
print(" ----- ")
```


