

```
# -*- coding: utf-8 -*-
```

```
"""
```

Created on Mon Apr 29 13:08:44 2019

Tip Calculator:

This application generates a random dollar amount and shows the several different tip choices.

Once the user chooses the tip amount, the total amount is calculated

@author: ebdegu01

```
"""
```

```
import random
```

```
import decimal
```

```
import time
```

```
for x in range(1):
```

```
    #generates a random dollar amount from $10.00 - $100.00
```

```
    bill_amount = (random.randint(10,100))
```

```
#sets the amount to currency format
```

```
def set_as_currency(bill_amount):
```

```
    if bill_amount > 0:
```

```
        print("${:.2f}".format(bill_amount))
```

```
    elif bill_amount < 0:
```

```
        print("-${:.2f}".format(-bill_amount))
```

```
if bill_amount == " ":
```

```
    print("There is no payment required.")
```

```
elif bill_amount > 0:
```

```
print('This is the payment required!')  
time.sleep(2)  
set_as_currency(bill_amount)  
time.sleep(2)
```

```
fifteenperc = float(.15)      #15%  
eighteenperc = float(.18)    #18%  
twentyperc = float(.20)     #20%
```

```
time.sleep(2)  
def set_as_float(fifteenperc):  
    if fifteenperc > 0:  
        print("{:.2f}".format(fifteenperc))  
    elif fifteenperc < 0:  
        print("-{:.2f}".format(fifteenperc))  
set_as_float(fifteenperc)
```

```
time.sleep(2)  
def set_as_float(eighteenperc):  
    if eighteenperc > 0:  
        print("{:.2f}".format(eighteenperc))  
    elif eighteenperc < 0:  
        print("-{:.2f}".format(eighteenperc))  
set_as_float(eighteenperc)
```

```
time.sleep(2)  
def set_as_float(twentyperc):  
    if twentyperc > 0:  
        print("{:.2f}".format(twentyperc))
```

```
elif twentyperc < 0:
    print("{:.2f}".format(twentyperc))
set_as_float(twentyperc)
time.sleep(2)

#this specifies the choices that the user can choose from
user_tip = ['1','2','3']

#the user inputs the choice for tip percentage
tip_choice = raw_input('Select a tip amount? 1: 15%, 2: 18%, 3: 20%')
if tip_choice not in user_tip:
    print('this is not a valid option')
if tip_choice == '1':
    tip_amount = bill_amount * fifteenperc
    total = bill_amount + tip_amount
elif tip_choice == '2':
    tip_amount = bill_amount * eighteenperc
    total = bill_amount + tip_amount
elif tip_choice == '3':
    tip_amount = bill_amount * twentyperc
    total = bill_amount + tip_amount
set_as_currency(total)
```