

# VENDING MACHINE

using python

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## ACKNOWLEDGMENT

I would like to express our special thanks of gratitude to the Professor Arpit Deo Sir who gave me the golden opportunity to do this wonderful project on the topic “vending machine using python” which also helped us in doing a lot of research and we come to know about so many new things.



# SUMMARY OF TOPICS

- Problem statement
- Solution
- Source code
- output
- System architecture
- Improvement
- Advantage



# PROBLEM STATEMENT

we know people have to stand in long lines and have to wait until their chance to come in school canteen or in office canteen just to get a good meal or have to wait in long lines in movie theater during intervals or somewhere else.





# SOLUTION

The solution to these problems are vending machine, Vending machines are convenient and they allow your employees and even clients and customers to get what they need in a time and cost-saving manner.





# SOURCE CODE

```
print ("*****DRINKS MACHINE*****")

print ("*****WELCOME*****")

print("for water choose = 1\nfor coco cola choose = 2\nfor pepsi choose = 3\nfor coffee choose = 4\nfor mazza choose = 5")

WATER = 10

COCA_COLA = 30

PEPSI = 20

COFFEE=35

MAZZA=25

money = int(input("Please Enter Your Money "))

drink_choice = int(input("Please enter your drink choice "))

quantity=int(input("please enter quantity "))
```





```
if drink_choice == 1:
```



```
    if money >= (quantity*WATER):
```

```
        print ("you selected WATER")
```

```
        money = money - (quantity*WATER)
```

```
        print ("Your change is", money)
```

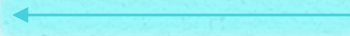
```
        print("thanks for visiting")
```

```
    else:
```

```
        money = (quantity*WATER) - money
```

```
        print ("You need",money ,"rupees more")
```

```
elif drink_choice == 2:
```



```
    if money >=(quantity* COCA_COLA):
```

```
        print ("you selected COCA_COLA")
```

```
        money = money - (quantity*COCA_COLA)
```

```
        print ("Your change is", money)
```

```
        print("thanks for visiting")
```

```
    else:
```

```
        money =(quantity*COCA_COLA) - money
```

```
        print ("You need",money ,"rupees more")
```





```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```

```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```

```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```

```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
money = (quantity*COFFEE) - money
print ("You need",money,"rupees more")
```



```
elif drink_choice == 5:
```

```
if money >= (quantity*MAZZA):
```

```
print ("you selected MAZZA")
```

```
money = money - (quantity*MAZZA)
```

```
print ("Your change is", money)
```

```
print("thanks for visiting")
```

```
else:
```

```
money = (quantity*MAZZA) - money
```

```
print ("You need",money ,"rupees more")
```

```
else:
```

```
print ("you did not make a valid selection")
```



# OUTPUT

## Normal condition

```
*****DRINKS MACHINE*****  
*****WELCOME*****  
Please Enter Your Money 100  
Please enter your drink choice 2  
please enter quantity 3  
you selected COCA_COLA  
Your change is 10  
thanks for visiting  
  
...Program finished with exit code 0  
Press ENTER to exit console.█
```

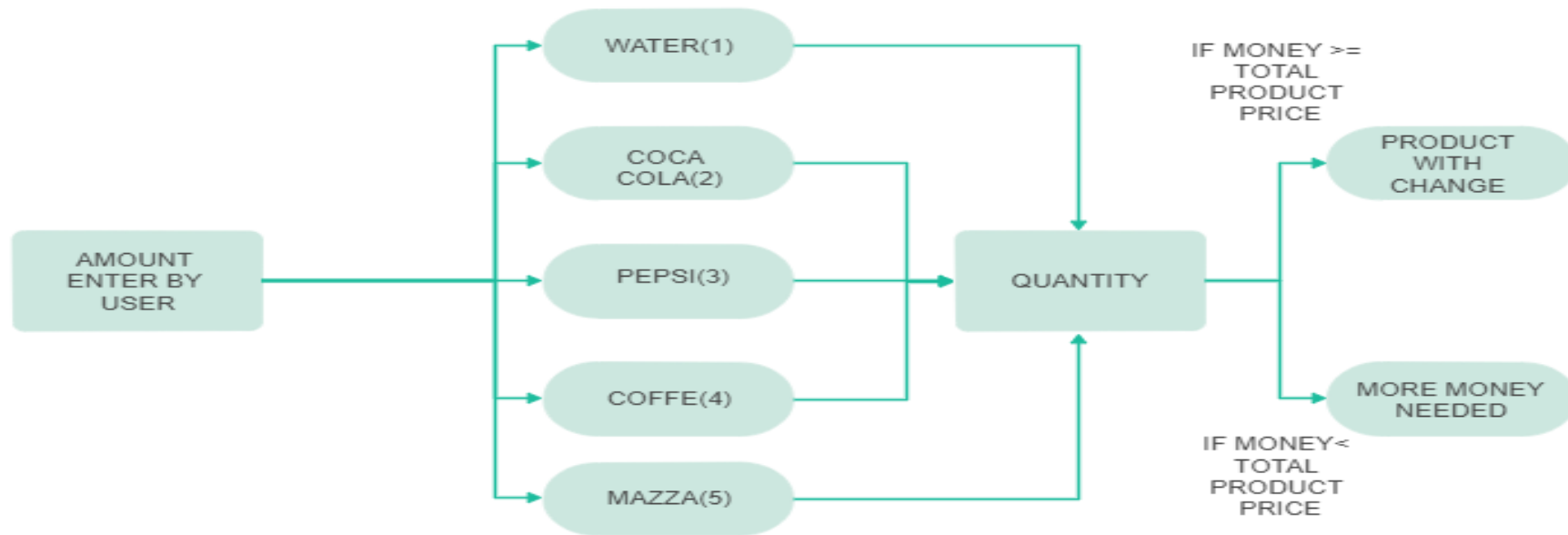
## During money shortage

```
*****DRINKS MACHINE*****  
*****WELCOME*****  
Please Enter Your Money 50  
Please enter your drink choice 3  
please enter quantity 4  
You need 30 rupees more  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```





# SYSTEM ARCHITECTURE





# IMPROVEMENT

- In this project we cannot order multiple products of different types at once.
- I need to add multiple payment options.
- Once money is entered and money is not enough then machine right now do not return the money , you have to enter more money.(which is a big drawback right now , I will improve this problem in future)





# ADVANTAGE

- Vending Machines are Low Maintenance
- Saves Time and Other Costs
- Keeps staff and students onsite
- Vending machines will help to make more money



THANK YOU