

```
In [3]: class RestaurantCheck:
    def __init__(self, check_number, table_number, subtotal, sales_tax_percent,
                self.check_number = check_number
                self.table_number = table_number
                self.subtotal = subtotal
                self.sales_tax_percent = sales_tax_percent
                self.server_name = server_name

    def calculate_total(self):
        return self.subtotal * (1+(self.sales_tax_percent/100))

    def print_check(self):
        receipt = open('check' + str(self.check_number) + '.txt', 'w')
        print('Check Number:', self.check_number, file = receipt)
        print('Table Number:', self.table_number, file = receipt)
        print('Subtotal: {:.2f}'.format(self.subtotal), file = receipt)
        print('Sales tax: ', self.sales_tax_percent, '%', sep='', file = receipt)
        print('Total: {:.2f}'.format(self.calculate_total()), file = receipt)
        print('Server:', self.server_name, file = receipt)
        receipt.close()

check = RestaurantCheck(443, 17, 23.14, 6.0, 'Sonic the Hedgehog')
check.print_check()
```

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In [9]: import re

def phone_number(mobi):
    pattern = re.compile(r'^\d{10}$')
    return pattern.match(mobi)
mobi = "9142441945"
if (phone_number(mobi)):
    print ("Valid Number")
else :
    print ("Invalid Number")

def name(Name):
    pattern = re.compile(r'^[A-Z][a-z]+$')
    return pattern.match(Name)
Name = "Santhosh"
if (name(Name)):
    print ("Valid Name")
else :
    print ("Invalid Name")

def E_mail(mail):
    pattern = re.compile(r'^[a-z0-9]+@[a-z]+\.[a-z]+$')
    return pattern.match(mail)
mail = "san123@gmail.com"
if (E_mail(mail)):
    print ("Valid mail ID")
else :
    print ("Invalid mail ID")
```

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def date(Date):  
    pattern = re.compile(r'^(0[1-9]|[12][0-9]|3[01])-(0[1-9]|1[0-2])-\d{4}$')  
    return pattern.match(Date)  
Date = "21-13-2023" #(DD-MM-YYYY)  
if (date(Date)):  
    print ("Valid Date")  
else :  
    print ("Invalid Date")
```

Valid Number
Valid Name
Valid mail ID
Invalid Date

In []: