

1st Question

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In [14]: class RestaurantCheck:
    def __init__(self, a, b, c, d, e):
        self.a=a
        self.b=b
        self.c=c
        self.d=d
        self.e=e
    def check_number(self):
        return self.a
    def sales_tax_percent(self):
        return self.b
    def subtotal(self):
        return self.c
    def table_number(self):
        return self.d
    def server_name(self):
        return self.e
    def calculate_total(self):
        return self.c+(self.c*self.b/100)
    def print_check(self):
        print('Check number:', self.a)
        print('Sales tax:', self.b)
        print('Subtotal:', self.c)
        print('Total:', self.c+(self.c*self.b/100))
        print('Table Number:', self.d)
        print('Server:', self.e)

RC = RestaurantCheck(443,6.0,23.14,17,'Sonic the Hedgehog')

Rc=RC.print_check()
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Check number: 443
Sales tax: 6.0
Subtotal: 23.14
Total: 24.5284
Table Number: 17
Server: Sonic the Hedgehog
```

2nd Question

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In [15]: import re

def isValidPhone(s):
    isEqual = re.compile("(0|91)?[6-9][0-9]{9}")
    return isEqual.match(s)

def isValidName(n):
    isEqual = re.compile(r'[A-Z]+[a-z]')
    return isEqual.match(n)

def isValidEmail(email):
    isEqual = re.compile(r'([A-Za-z0-9]+[.-_])*[A-Za-z0-9]+@[A-Za-z0-9-]+(\.[A-Z|a-z]{2,})')
    return isEqual.match(email)

def isValidDate(date):
    isEqual = re.compile(r"([0-2]\d|3[01])/(0\d|1[0-2])/([12]\d{3})")
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        return isEqual.match(date)

s= input("Enter Phone number: ")
n=input("Enter Name: ")
email=input("Enter Email: ")
date=input("Enter Date: ")

if(isValidPhone(s)):
    print("Valid Phone Number")
else:
    print("Invalid Phone Number")
if(isValidName(n)):
    print("Valid Name")
else:
    print("Invalid Name")
if(isValidEmail(email)):
    print("Valid Email")
else:
    print("Invalid Email")
if(isValidDate(date)):
    print("Valid Date")
else:
    print("Invalid Date")
```

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Enter Phone number: 7869453467
Enter Name: Yashasri
Enter Email: yashasri@gmail.com
Enter Date: 02/11/23
Valid Phone Number
Valid Name
Valid Email
Invalid Date
```

In []: