In [ ]:
```
1.
class RestaurantCheck:
    def __init__(self, check_number, sales_tax_percent, subtotal, table_number, server_name):
        self.check_number = check_number
        self.sales_tax_percent = sales_tax_percent
        self.subtotal = subtotal
        self.table_number = table_number
        self.server_name = server_name

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

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

check = RestaurantCheck(443, 6, 23.14, 'Sonic the Hedgehog', 17)
check.print_check()
```

In [ ]:
```
  import re
def phone_number(phone):
        pattern = '^[0-9]{10}$',
        if re.match(pattern, phone):
           return True,
        return False,
print(phone_number(1234567891)),
def name(name):
        pattern = '^[A-Z][a-z]+$',
        if re.match(pattern, name):
            return True,
        return False,
print(name(Siva)),
def email(email):
        pattern = '^[a-z0-9]+@[a-z]+\\.[a-z]+$',
        if re.match(pattern, email):
            return True,
        return False,
print(email(sais33058@gmail.com)),
def date(date):
        pattern = '^[0-9]{2}-[0-9]{2}-[0-9]{4}$',
        if re.match(pattern, date):
            return True,
        return False,
print(date(9-12-2024))
```

In [ ]:

In [ ]: