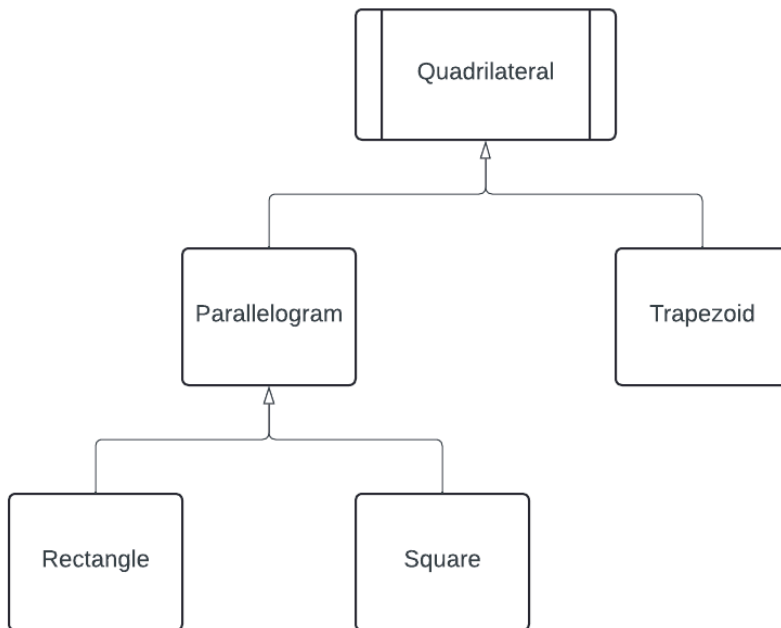# Module 8
Question 1

```
CommissionEmployee constructor
commission employee: Bob Lewis
social security number: 333-33-3333
gross sales: 5000
commission rate: 0.04

BasePlusCommissionEmployee constructor:
base-salaried commission employee: Bob Lewis
social security number: 333-33-3333
gross sales: 5000
commission rate: 0.04
base salary: 300
```

```
Employee information obtained by get functions:

First name is Bob
Last name is Lewis
Social security number is 333-33-3333
Gross sales is 5000.00
Commission rate is 0.04
Base salary is 300.00

Updated employee information output by print function:

base-salaried commission employee: Bob Lewis
social security number: 333-33-3333
gross sales: 5000.00
commission rate: 0.04
base salary: 1000.00

Employee's earnings: $1200.00
```

```
CommissionEmployee constructor
commission employee: Martin Atanacio
social security number: 123-45-6789
gross sales: 10000.00
commission rate: 0.06

Employee information obtained by get functions:

First name is Martin
Last name is Atanacio
Social security number is 123-45-6789
Gross sales is 10000.00
Commission rate is 0.06

Updated employee information output by print function:

commission employee: Martin Atanacio
social security number: 123-45-6789
gross sales: 10000.00
commission rate: 0.06

Employee's earnings: $600.00
```

Question 2

```
                    ┌──┬──────────────┬──┐
                    │  │ Quadrilateral │  │
                    └──┴──────────────┴──┘
                            △
                 ┌──────────┴──────────┐
         ┌───────────────┐      ┌───────────────┐
         │ Parallelogram │      │   Trapezoid   │
         └───────────────┘      └───────────────┘
                 △
        ┌────────┴────────┐
  ┌───────────┐     ┌───────────┐
  │ Rectangle │     │  Square   │
  └───────────┘     └───────────┘
```

Module 9
Question 1

```
salaried employee: John Smith
social security number: 111-11-1111

earned $800

comission employee: Sue Jones
social security number: 333-33-3333
gross sales: 10000
commission rate: 0.06
earned $600

hourly employee: John Charles
social security number: 111-11-1111
Hours worked: 80
Hourly wage: 26$
old hourly rate: $26
new hourly rate with 10% increase is: $28.6
earned $2860

Base plus comission employee: Bob Lewis
social security number: 444-44-4444

gross sales: 5000
commission rate: 0.04
base salary: 300
old base salary: $300
new base salary with 10% increase is: $330
earned $530
```

Question 2

```
Current Date: Date: 10/4/2024

salaried employee: John Smith
social security number: 111-11-1111

Date: 1/1/2001
Earned this month: $3200

Comission employee: Sue Jones
social security number: 333-33-3333
gross sales: 10000
Commission rate: 0.2
Date: 2/2/2002
Earned this month: $2000

hourly employee: John Charles
social security number: 111-11-1111
Hours worked: 40
Hourly wage: 26$
Date: 3/3/2003
Earned this month: $4160

Base plus comission employee: Bob Lewis
social security number: 444-44-4444

gross sales: 5000
commission rate: 0.04
base salary: 300
Date: 4/4/2004
It's your birthday this month!
Earned this month: $1400
+$100 bonus.
 Total: $1500
```

Module 10
Question 1

```
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
1

You have selected choice: 1
Reading random record from the file: 1
Account    Last Name        First Name     Balance
1          Atanacio         Martin          200.00
```

```
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
2

You have selected choice: 2
Reading random record from the file: 3
Account    Last Name        First Name     Balance
3          Shelby           Tommy            50.00
```

```
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
3

You have selected choice: 3
Enter record to read 2
Reading random record from the file: 2
Account    Last Name        First Name     Balance
2          Wick             John           1000.00
```

Question 2

```
Enter the information for 5 accounts
Enter account, lastname, firstname and balance.
1 Atanacio Martin 200
2 Wick John 1000
3 Shelby Tommy 50
4 White Walter 99999
5 Doe John 7
```

```
Select from the options given below
1. Read Sequentially
2. Read Randomly
3. Quit
1

You have selected choice: 1
Account     Last Name          First Name      Balance
1           Atanacio           Martin           200.00
2           Wick               John            1000.00
3           Shelby             Tommy             50.00
4           White              Walter         99999.00
5           Doe                John               7.00
```

```
Select from the options given below
1. Read Sequentially
2. Read Randomly
3. Quit
2

You have selected choice: 2
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
1

You have selected choice: 1
Reading random record from the file: 1
Account     Last Name          First Name      Balance
1           Atanacio           Martin           200.00
```

```
Select from the options given below
1. Read Sequentially
2. Read Randomly
3. Quit
2

You have selected choice: 2
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
2

You have selected choice: 2
Reading random record from the file: 5
Account    Last Name        First Name      Balance
5          Doe              John               7.00
```
```
Select from the options given below
1. Read Sequentially
2. Read Randomly
3. Quit
2

You have selected choice: 2
Select from the options given below
1. Read First Record
2. Read Last Record
3. Read Specific Record
4. Quit
3

You have selected choice: 3
Enter record to read 4
Reading random record from the file: 4
Account    Last Name        First Name      Balance
4          White            Walter         99999.00
```

Module 11
Question 1

```
Please enter integer 1 : 20
Please enter integer 2 : 5
The sum of 20 + 5 = 25
The difference of 20 - 5 = 15
The product of 20 x 5 = 100
The quotient of 20 / 5 = 4
```

```
Please enter float 1 : 10
Please enter float 2 : 3.3
The sum of 10 + 3.3 = 13.3
The difference of 10 - 3.3 = 6.7
The product of 10 x 3.3 = 33
The quotient of 10 / 3.3 = 3.0303
```

Question 2

```
Enter your date of birthday using DD, MM, YYYY:
14 12 2001
You do not have a birthday this month.
```

```
Enter your date of birthday using DD, MM, YYYY:
14 04 2001
You have a birthday this month, Happy Belated Birthday!
```