

Subject:

## uml → ch 9

### 9.1

#### Rectangle

- width : double
- height : double
- + Rectangle()
- + Rectangle(w : double , h : double)
- + getArea() : double
- + getPerimeter() : double

9.2

## Stock

- + symbol: String
  - + name: String
  - + CurrentPrice: double
  - + PreviousClosingPrice: double
  - + stock( symbol: string , name: String ): void
  - + getChangePercent(): double
-

9.6:

## StopWatch

- startTime : long
- endTime : long
- + stopwatch()
- + start(): void
- + stop(): void
- + getStartTime(): long
- + getEndTime(): long
- + getElapsedTime(): long

9.7

## Account

- id : int - dateCreated : String
- balance : double
- annualInterestRate : double
- + Account() , + Account(newId:int, newBalance:int)
- + Account(newId:int, newBalance:double)
- + setId(id:int) : void
- + setBalance(balance:double) : void
- + setAnnualInterestRate(AIR:double) : void
- + getId() : int

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- + getBalance(): double
- + getAnnualInterestRate(): double
- + getDateCreated(): String
- + getMonthlyInterest(): double
- + getMonthlyInterestRate(): double
- + withdraw(Amount: double) : void
- + deposit(Amount: double) : void

9.8:

Fan

+ SLOW = 1 }  
+ MEDIUM = 2 } Constants  
+ FAST = 3 }

- color: String  
- speed: int  
- on: boolean  
- radius: double

+ Fan()

+ setSpeed (newSpeed: int): void  
+ setOn (newStatus: boolean): void  
+ setColor (newColor: String): void  
+ setRadius (newRadius: double): void

+ getSpeed(): String  
+ isOn(): boolean  
+ getRadius(): double  
+ getColor(): String  
+ toString(): String

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Q.9

## RegularPolygon

- n : int
- sides : double
- x : double
- y : double
- + RegularPolygon()
- + RegularPolygon(sideNumber : int, newSide : double)
- + RegularPolygon(sideNumber : int, newSide : double,  
x1 : double, y1 : double)
- + setN(newNumber : int) : void
- + setSide(newSide : double) : void
- + setX(x1 : double) : void
- + setY(y1 : double) : void
- + getN() : int
- + getSide() : double
- + getX() : double
- + getY() : double
- + getPerimeter() : double
- + getArea() : double

8.10:

## QuadraticEquation

- a: double
- b: double
- c: double
- + QuadraticEquation(a<sub>1</sub>:double, b<sub>1</sub>:double, c<sub>1</sub>:double)
- + getAC(): double, + getBC(): double
- + getCC(): double, + getDiscriminant(): double
- + getRoot1(): double, + getRoot2(): double

8.11s

## LinearEquation

- a:double, - b:double, - c:double
- d:double, - e:double, - f:double
- + LinearEquation(a1:double, b1:double, c1:double, d1:double, e1:double, f1:double)
- + getA(): double
- + getB(): double
- + getC(): double
- + getD(): double
- + getE(): double
- + getF(): double
- + getX(): double
- + getY(): double
- + isSolveable(): boolean