

AERONAUTICAL ENGINEERING (An Autonomous Institute affiliated to JNTUH, Hyderabad) Dundigal, Hyderabad - 500 043

## LABORATORY WORK BOOK

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		AC \$ DO3 Course				230	1 5	1 4	0 5	28	
		Course Faculty Do pe.					Fa	aculty ID :	IAD	E - 10	
xer	cise Nur	mber :	Week	Number :	12		D	ate :	19/9	12024	
	Exercise Number	EXERCISE NAME				KS AWARDED					
			Aim/ Preparation	Algorithm / Procedure Performance in the Lab		Source Cod  Calculation and Graph:	s Res	Program Execution  Results and Error  Analysis		Total	
					4	4		4	4	20	
1	12-1	Rectangle class	1-	2	2	4	-	4	4	20	
2	(2.2	Rectangle class Employee class	7		-						
3	12.3	Invoice class			-						
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Signature of the Student

Signature of the Faculty

## START WRITING FROM HERE

```
12.1 Rectangle class
Public class Rectangle
 Public Stadic Void moin (String gras[])
    Rectangle rectangle = new Rectangle (1,2f, 3.4f);
    Rectangle rectange = new Rectangle ();
    Rectangle rectangles = new Lectangle (5.6 F, 7.8 f);
     System.out. println (redanglei);
     System out printle (rectange):
      System out println (rectomples);
     public Rectorgle 174
            length = 1.0f; width = 1.0f;
             private fluat length;
             private float width;
            3
           public lutangle (float length, float width);
                     this length = length;
                     this width = width;
                   public float get Length(){
                          return length;
```

j

## **ROLL NUMBER:**

```
void set length (float length) {
Public
        This length = length; 7
    Public float get width () {
         return width;
     Public void set width (float width) &
             this width = width;
      public double get Asea () {
            return dength * width 5
         p
         public double get perimeter 1) {
              return a* (length + width);
          3
     1
 Result;
Rectangle [length=12, width = 3.4]
Rectangle ( length = 1.0, width = 1.0]
Redomgle [length = 5.6, width = 7.8]
  length is 5.6
  width is 7.8
   area is 43.68 perimeter is = 26.80
```

## **ROLL NUMBER:**

```
12.2 Employee class
Public
        class Employee &
          Private intid;
          Private String first Name;
          private string Last Name;
          Privale int salary;
        Public Employee (Int id, String first Name, String last name
          , int salary)
       9
        this, id = id;
        this first Name = first Name
          this . Salary = salary;
        public int gettachs:
                    returned;
         Public
                String get First Name () {
                      return first Name;
                  String get Last Name () {
                 return lastName;
                 3
```

```
ROLL NUMBER:
```

```
Public void set salony (int salony) {
     this, salary = salary;
    Public int get Annua Salary () q
          return salary *12;
     4
     Public int raise Salary (int percent) {
           double increase = (salary + percent)/100.00
           Salary + = Increase;
            return salony;
     Public static void main (string args (1))
        Employer = ne w Employer (8, "peter", "Tax", 2500);
          System out printin (employer);
           employer set Salony (999);
          System out print (n( employee);
Result:
Employee (id=8, nome=peter. salony=2500)
  Id is: 8
 first name is: peter
  Cast nome is: Ton
   Salony is: 999
     normy is: Peter Tom
```

```
Invoice class repealed the property that they willing
12.3
  Public
         Clars Invoice {
          Private String Id;
          Private String desc's
          Private int 9ty;
          private double unit price;
          Public Invoice (String id, String desc, intaty, double unitarice);
           this id = id;
                             saland + health
           This dese = dese;
                               rycolot acuts e
           this . aty = aty;
            this unit price = unit prince;
}
(1) 1000 pm/2 and blov sitor 2009
         Public. String gettd () { = sympn = sympn)
                   returned; along the motives
           Public String get Desc(){
                    return desc;
             public int get aty() {
                    return aty;
```

public void set Unit price (double onit Price) {

this unit pric = onit price; }

first right is poles

HOLL NUMBER :

```
Public string to string () {
     return " Invoicetem [id = "+id+", desc = "+desc + ", aty "+
                          aty +", unit price = "+ unit price +");
                3
     Public static void main (String org (7) {
          Invoice item = new Invoice ("Alol", Pen", Red, 888,008);
         syctem out. Println (item);
         item. set aty (999);
        item. Set Unit price (0.99);
        System out print (item);
  Result:
 Invoice (id=Alot, desc=pen Red, 9ty=888, price=0.08)
        Id is: Alo)
   der is : pen Red
     aty: 999
     unit price: 099
        Total: 989.01
```