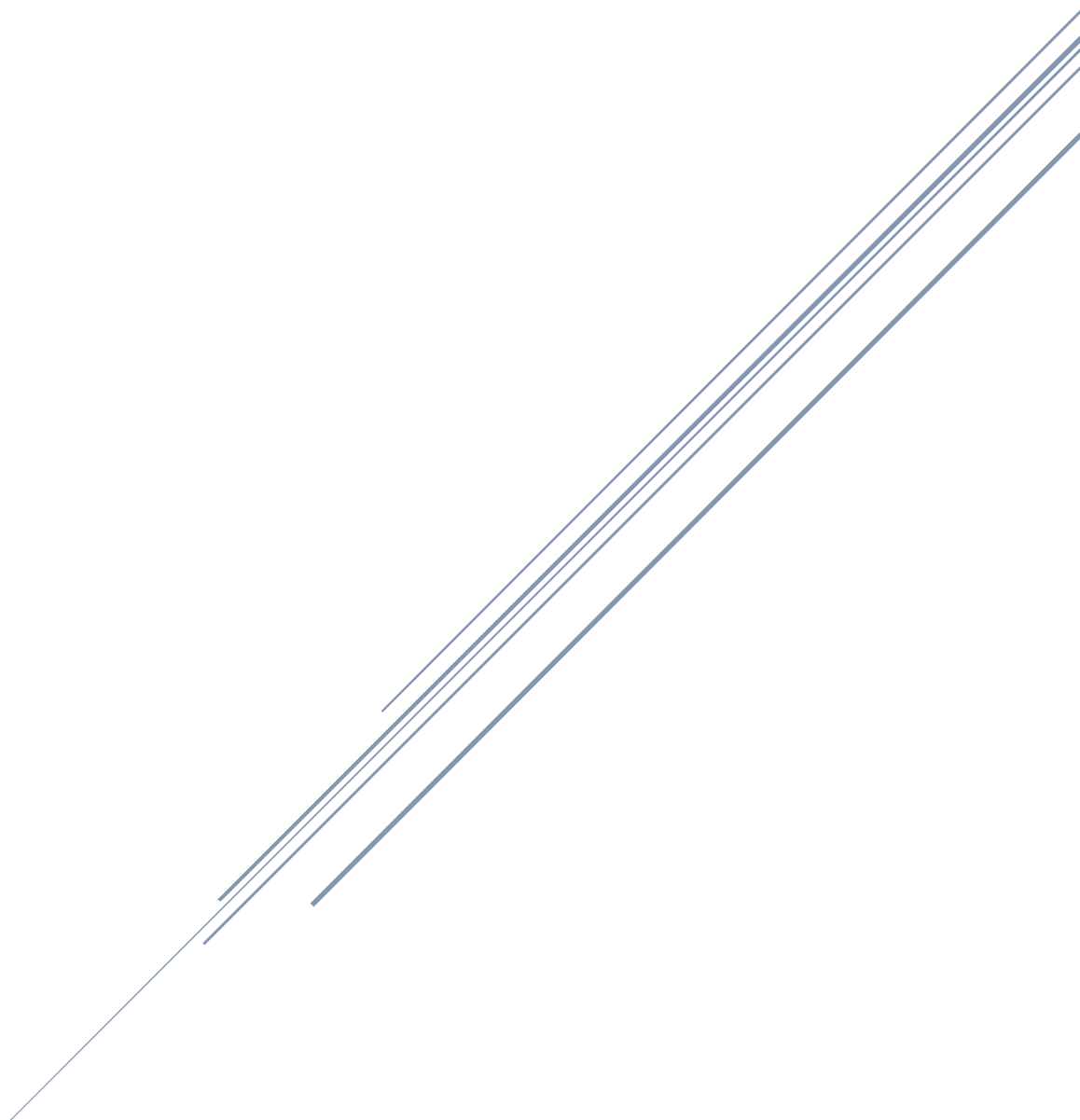


LAB 6

Qalandar bux



3/6/2023

Task 1

```
package lab5;
class Football{
private String type, size, weight;
public Football(String type, String size, String weight) {
this.type = type;
this.size = size;
this.weight = weight;
}
public String getType() {
return type;
}
public void setType(String type) {
this.type = type;
}
public String getSize() {
return size;
}
public void setSize(String size) {
this.size = size;
}
public String getWeight() {
return weight;
}
public void setWeight(String weight) {
this.weight = weight;
}
}
class Footballplayer{
private String name;
private Football football;
public Footballplayer(String name, Football football) {
this.name = name;
this.football = football;
}
public String getName() {
return name;
}
public void setName(String name) {
this.name = name;
}
public Football getFootball() {
return football;
}
public void setFootball(Football football) {
this.football = football;
}
```

```
}  
}  
public class Test {  
    public static void main(String []args) {  
        Football obj=new Football("tenis", "8", "9");  
        Footballplyer obj1=new Footballplyer("Messi",obj);  
        System.out.println("player name:"+obj1.getName()+"\n"+"ball  
type:"+obj1.getFootball().getType()  
+"\n"+"BAll size: "+obj1.getFootball().getSize()+"\n"+"ball  
weight:"+obj1.getFootball().getWeight());  
    }  
}
```

Output

```
player name:Messi  
ball type:tenis  
BAll size: 8  
ball weight:9
```

Task 2

```
package lab5;

class Operation{

    int n;

    public int squire(int n)

    {

        return n*n;

    }

}

class Circle{

    final float pi =3.14f;

    Operation op;

    double Area(int n) {

        op=new Operation();

        return pi*op.squire(n);

    }

}

public class lab6task2 {

    public static void main(String[]args) {

        Circle obj=new Circle();

        System.out.print("The area of circle is :"+obj.Area(8));

    }

}
```

Output

```
The area of circle is :200.9600067138672
```

Task 3

```
package lab5;
class Job{
private String role;
private int salary , id;
public String getRole() {
return role;
}
public void setRole(String role) {
this.role = role;
}
public int getSalary() {
return salary;
}
public void setSalary(int salary) {
this.salary = salary;
}
public int getId() {
return id;
}
}
class Person{
private Job job;
Person(){
job=new Job();
job.setSalary(50000);
job.setRole("Coordinator");
}
int getSalary() {
return job.getSalary();
}
public String getRole() {
return job.getRole();
}
}
public class lab6task3 {
public static void main(String[]args) {
Person obj=new Person();
System.out.print("The Role is :"+obj.getRole()+"\n"+"The salary :"+obj.getSalary());
}
}
```

Output

```
The Role is :Coordinator
The salary :50000
```

Task 4

```
package lab5;
import java.util.*;
class Flight{
    private String id, Destination;
    Time Dep;
    Time arr;
    private Vector<Passenger> passengerlist=new Vector<Passenger>();
    public Flight(String id, String destination, Time dep, Time arr) {
        this.id = id;
        Destination = destination;
        this.Dep = dep;
        this.arr = arr;
    }
    void addPassenger(Passenger obj) {
        passengerlist.add(obj);
    }
    void printf() {
        System.out.print("Flight No: "+id+"\n"+"Destination :"+Destination+"\n"+"Dpart time
"+Dep.getHour()+
":"+Dep.getMinute()+"\n"+"Arrive time
"+arr.getHour()+":"+arr.getMinute()+"\n"+"passengerNo: "+passengerlist.size());
    }
}
class Time {
    private int hour, minute;
    public int getHour() {
        return hour;
    }
    public int getMinute() {
        return minute;
    }
    public Time(int hour, int minute) {
        this.hour = hour;
        this.minute = minute;
    }
}
```

```

}
}
class Passenger{
private String name ;
private int age ;
public Passenger(String name, int age) {
this.name = name;
this.age = age;
}
}

public class Flight1 {
public static void main (String[]args) {
Time dep=new Time (8,10);
Time arr=new Time(9,00);
Flight f=new Flight("PK-303","Lahore",dep,arr);
Passenger psg1=new Passenger("maqsood",23);
Passenger psg2=new Passenger("qalandar",21);
Passenger psg3=new Passenger("mujib",20);
f.addPassenger(psg1);
f.addPassenger(psg2);
f.addPassenger(psg3);
f.printf();
}
}

```

Output

```

Flight No: PK-303
Destination :Lahore
Dpart time 8:10
Arrive time 9:0
passengerNo: 3|

```

Task 5

Part A

```
package lab5;
class Authort {
private String name;
private String email;
private char gender;
public Authort(String name, String email, char gender) {
this.name = name;
this.email = email;
this.gender = gender;
}
public String getName() {
return name;
}
public void setName(String name) {
this.name = name;
}
public String getEmail() {
return email;
}
public void setEmail(String email) {
this.email = email;
}
public char getGender() {
return gender;
}
public void setGender(char gender) {
this.gender = gender;
}
@Override
public String toString() {
return "Author ( name=" + name + " gender=" + gender + " at email=" + email + ")";
}
}
public class Author{
public static void main (String[]args) {
Authort obj=new Authort("Ahmed", "Ahmed@gamai.com", 'm');
System.out.print(obj.toString());
}
}
```

Output

```
Author ( name=Ahmed gender=m at email=cahad@gamai.com)
```


Task 5

Part b

```
package lab6;
class Author {
private String name;
private String email;
private char gender;
public Author(String name, String email, char gender) {
this.name = name;
this.email = email;
this.gender = gender;
}
public String getName() {
return name;
}
public void setName(String name) {
this.name = name;
}
public String getEmail() {
return email;
}
public void setEmail(String email) {
this.email = email;
}
public char getGender() {
return gender;
}
public void setGender(char gender) {
this.gender = gender;
}
@Override
public String toString() {
return "Author ( name=" + name + " gender=" + gender + " at email=" + email + ")";
}
}
class book{
private String name;
private Author author ;
private double price ;
private int qty;
public String getName() {
return name;
}
public book(String name, Author author, double price, int qty) {
this.name = name;
this.author = author;
this.price = price;
```

```

    this.qty = qty;
}
public Author getAuthor() {
    return author;
}
public double getPrice() {
    return price;
}
public void setPrice(double price) {
    this.price = price;
}
public int getQty() {
    return qty;
}
public void setQty(int qty) {
    this.qty = qty;
}
@Override
public String toString() {
    return "Book [name=" + name + ", Author=" + author.toString() + ", price=" + price +
        ", qty=" + qty + "]";
}
}
public class Taste{
    public static void main (String[]args) {
        Author obj=new Author("Ahmed", "Ahmed@gamai.com", 'm');
        book obj1=new book("Discovering",obj,599.0,4);
        System.out.print(obj1.toString());
    }
}

```

Output

```

Book [name=Discovering, Author=
Author ( name=Ahmed  gender=m  at email=Ahmed@gamai.com)
price=599.0 qty=4]

```