# **Task6**

1. Create a class called "Person" with attributes "name" and "age". Also create a constructor and getter methods for the attributes.

package Assignment6;

public class question1 {

private String name;

private int age;

public static void main(String[] args) {

new question1();

new question1("Lakshman",23);

}

//Constructor with both getters and setters

question1() {

setName("Rama");

setAge(25);

System.***out***.println("Name: " + name + "/ Age: " + age);

}

//Constructor with only getters

question1(String name, int age){

this.name=name;

this.age =age;

System.***out***.println("Name: " + name + "/ Age: " + age);

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

}

Output:

Name: Rama/ Age: 25

Name: Lakshman/ Age: 23

2.

package Assignment6;

class Employee {

int ID;

String Firstname;

String Lastname;

int Salary;

float NewSalary;

int TotalSalary;

Employee(int ID, String Firstname, String Lastname, int Salary) {

this.Salary = Salary;

System.***out***.println("Employee ID:" + ID);

System.***out***.println("Name: " + Firstname + " " + Lastname);

System.***out***.println("Current Salary: " + Salary);

}

public void raiseSalary(int percent) {

TotalSalary = Salary \* 12;

NewSalary = Salary + (Salary \* percent / 100);

System.***out***.println("Current Salary for the year: " + TotalSalary);

System.***out***.println("Raise Percent: " + percent + "%");

System.***out***.println("New Salary: " + NewSalary);

System.***out***.println("New Salary for the year: " + NewSalary \* 12);

}

}

public class question2 {

public static void main(String[] args) {

Employee Emp = new Employee(33, "Shiva", "kumar", 100000);

Emp.raiseSalary(25);

}

}

Output:

Employee ID:33

Name: Shiva kumar

Current Salary: 100000

Current Salary for the year: 1200000

Raise Percent: 25%

New Salary: 125000.0

New Salary for the year: 1500000.0

3.

package Assignment6;

public class question3 {

private float radius;

private int circleID;

public static void main(String[] args) {

new question3();

new question3(2, 5);

}

question3() {

circleID = 1;

System.***out***.println("Default CircleID:" + circleID);

circumference(1);

}

question3(int circleID, float radius) {

this.circleID = circleID;

System.***out***.println("CircleID:" + circleID);

circumference(radius);

}

void circumference(float radius) {

this.radius = radius;

double circum = 2 \* 3.14 \* radius;

System.***out***.println("Radius:" + radius);

System.***out***.println("Cicumference is " + circum);

}

public float getRadius() {

return radius;

}

public int getCircleID() {

return circleID;

}

}

Output:

Default CircleID:1

Radius:1.0

Cicumference is 6.28

CircleID:2

Radius:5.0

Cicumference is 31.400000000000002

4.

package Assignment6;

class Account1 {

private int accountNumber;

private double balance;

private String accountHolder;

public int getAccountNumber() {

return accountNumber;

}

public String getAccountHolder() {

return accountHolder;

}

Account1() {

accountNumber = 0;

accountHolder = "Unknown";

balance = 0.0;

System.***out***.println("Account Number: " + accountNumber);

System.***out***.println("Account Holder: " + accountHolder);

}

Account1(int accountNumber, String accountHolder) {

this.accountNumber = accountNumber;

this.accountHolder = accountHolder;

this.balance = 0.0;

System.***out***.println();

System.***out***.println();

System.***out***.println("Account Number: " + accountNumber);

System.***out***.println("Account Holder: " + accountHolder);

}

public void withdraw(int amount) {

if (amount > 0 && amount <= balance) {

this.balance -= amount;

System.***out***.println("Withdrawn: " + amount);

} else {

if (amount > balance) {

System.***out***.println("Insufficient funds.");

} else {

System.***out***.println("Withdrawal amount must be positive.");

}

}

}

public void deposit(int amount) {

if (amount > 0) {

balance += amount;

System.***out***.println("Deposited: " + amount);

} else {

System.***out***.println("Deposit amount must be positive.");

}

}

public double checkBalance() {

System.***out***.println("Account Balance: " + balance);

return balance;

}

}

public class question5 {

public static void main(String[] args) {

Account1 audit = new Account1();

audit.checkBalance();

audit.deposit(1000);

audit.checkBalance();

audit.withdraw(500);

audit.checkBalance();

Account1 audit2 = new Account1(10255255, "Rajini");

audit2.checkBalance();

audit2.deposit(1000);

audit2.checkBalance();

audit2.withdraw(500);

audit2.checkBalance();

}

}

Output:

Account Number: 0

Account Holder: Unknown

Account Balance: 0.0

Deposited: 1000

Account Balance: 1000.0

Withdrawn: 500

Account Balance: 500.0

Account Number: 10255255

Account Holder: Rajini

Account Balance: 0.0

Deposited: 1000

Account Balance: 1000.0

Withdrawn: 500

Account Balance: 500.0