	E.G.S. PILLAY ENGINEERING COLLEGE (An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu.	Rev.1 COE/2019/QS

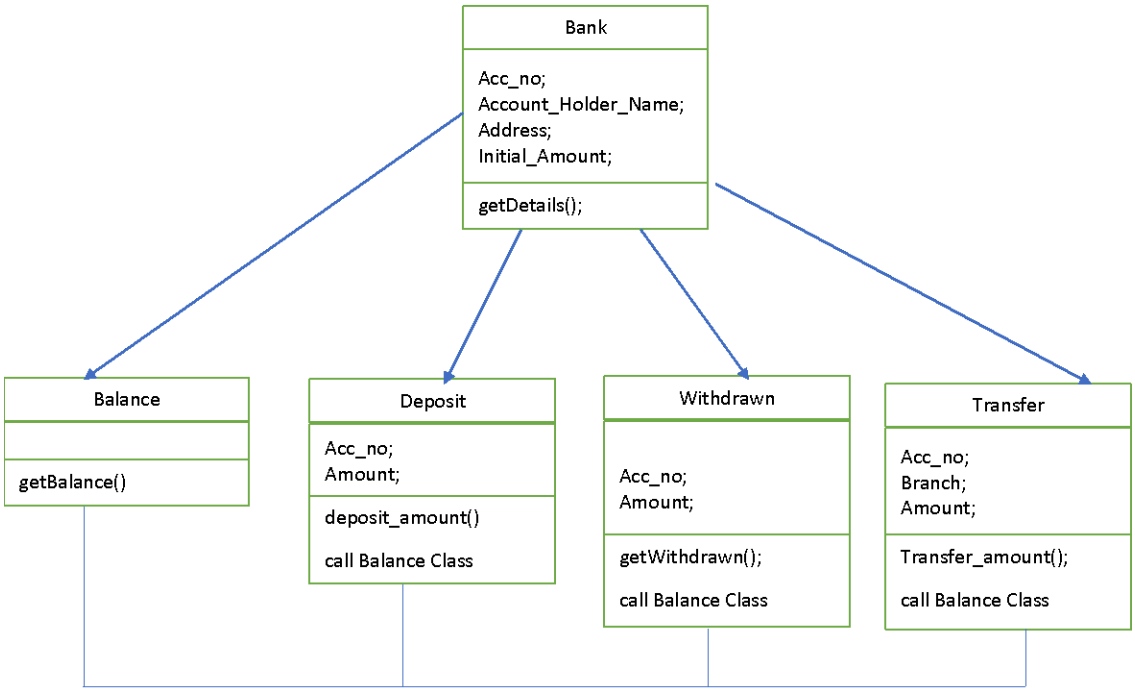
1902IT452 – JAVA PROGRAMMING				
Academic Year :	2023-24	**Question Set – PAT1**	Programme :	IT
Year / Semester :	II/IV		Course Coordinator:	Manikandan.S

S.No	Questions	BTL
CO1: Understand the basic concepts of Java Programming.		
1	Using Classes and Objects write the Java Program for Operators	K2
2	Write a java program to perform below problem Rows: ***** **** *** ** * Rows: * ** *** **** *****	K3
3	A class consist of 66 students they are studying 4th semester. In this semester , there are 3 laboratory courses. For Each lab the dept give 50 A4 sheets . Write a program to total find no of total A4 and total no of packets	K3
4	Write a Java program for computing Fibonacci series	K3
5	Write the Java Program to Convert Fahrenheit to Celsius and Celsius to Fahrenheit in different classes	K3

S.No	Questions	BTL
CO2: Develop Java program using classes, objects, and encapsulation		
1	Write the Java Program to Print 100 to 1 Prime numbers and 1 to 100 prime number using class and object	K4
2	Write the java code to get the below details from the student register number,name,semester, number of theory classes, number of laboratary course, number of lifeskill course, the exam fees for each theory course=300 for each laboratory course= 500 each life skill course=200 find out the total examples from each student	K3

<table>
<tr><td>3</td><td>

Case Study: Banking Operations



Solve this problem using Polymorphism, class and objects

</td><td>K4</td></tr>
<tr><td>4</td><td>

Write a program to create interface method named customer. In this the method called information(), show() and also maintain the tax rate. Implement the interface in employee class and calculate the tax of the employee based on their income

<table>
<tr><td rowspan="2">income</td><td colspan="2">Tax percentage</td></tr>
<tr><td>Male</td><td>Female</td></tr>
<tr><td>>=1,90,000</td><td>nil</td><td>nil</td></tr>
<tr><td>>=2,00,222</td><td>10%</td><td>nil</td></tr>
<tr><td>>=5,00,000</td><td>20%</td><td>10%</td></tr>
<tr><td><5,00,000</td><td>25%</td><td>20%</td></tr>
</table>

</td><td>K4</td></tr>
<tr><td>5</td><td>Write a java program to prove this equation $(a+b)^3=a^3+3a^2b+3ab^2+b^3$ using constructor</td><td>K3</td></tr>
</table>