1: Write a java program using do while with recalling perform banking operation using scanner

```
package symbiosis;
import java.util.Scanner;
	class BankDetails {
		private String accno;
		private String name;
		private String acc_type;
		private long balance;
		Scanner sc = new Scanner(System.in);

		public void openAccount() {
		   System.out.print("Enter Account No: ");
		   accno = sc.next();
		   System.out.print("Enter Account type: ");
		   acc_type = sc.next();
		   System.out.print("Enter Name: ");
		   name = sc.next();
		   System.out.print("Enter Balance: ");
		   balance = sc.nextLong();
		}

		public void showAccount() {
		   System.out.println("Name of account holder: " + name);
		   System.out.println("Account no.: " + accno);
		   System.out.println("Account type: " + acc_type);
		   System.out.println("Balance: " + balance);
		}

		public void deposit() {
		   long amt;
		   System.out.println("Enter the amount you want to deposit: ");
		   amt = sc.nextLong();
		   balance = balance + amt;
		}

		public void withdrawal() {
		   long amt;
		   System.out.println("Enter the amount you want to withdraw: ");
		   amt = sc.nextLong();
		   if (balance >= amt) {
		      balance = balance - amt;
		      System.out.println("Balance after withdrawal: " + balance);
		   } else {
```

```
                System.out.println("Your balance is less than " + amt + "\tTransaction
        failed...!!" );
                }
            }
            //method to search an account number
            public boolean search(String ac_no) {
                if (accno.equals(ac_no)) {
                    showAccount();
                    return (true);
                }
                return (false);
            }
    }
public class Yasin {
    public static void main(String arg[]){
                Scanner sc = new Scanner(System.in);

                System.out.print("How many number of customers do you want to input? ");
                int n = sc.nextInt();
                BankDetails C[] = new BankDetails[n];
                for (int i = 0; i < C.length; i++) {
                    C[i] = new BankDetails();
                    C[i].openAccount();
                }
                // loop runs until number 5 is not pressed to exit
                int ch;
                do {
                    System.out.println("\n ***Banking System Application***");
                    System.out.println("1. Display all account details \n 2. Search by Account
        number\n 3. Deposit the amount \n 4. Withdraw the amount \n 5.Exit ");
                    System.out.println("Enter your choice: ");
                    ch = sc.nextInt();
                        switch (ch) {
                            case 1:
                                for (int i = 0; i < C.length; i++) {
                                    C[i].showAccount();
                                }
                                break;
                            case 2:
                                System.out.print("Enter account no. you want to search: ");
                                String ac_no = sc.next();
                                boolean found = false;
                                for (int i = 0; i < C.length; i++) {
                                    found = C[i].search(ac_no);
```

```
                if (found) {
                    break;
                }
            }
            if (!found) {
                System.out.println("Search failed! Account doesn't exist..!!");
            }
            break;
        case 3:
            System.out.print("Enter Account no. : ");
            ac_no = sc.next();
            found = false;
            for (int i = 0; i < C.length; i++) {
                found = C[i].search(ac_no);
                if (found) {
                    C[i].deposit();
                    break;
                }
            }
            if (!found) {
                System.out.println("Search failed! Account doesn't exist..!!");
            }
            break;
        case 4:
            System.out.print("Enter Account No : ");
            ac_no = sc.next();
            found = false;
            for (int i = 0; i < C.length; i++) {
                found = C[i].search(ac_no);
                if (found) {
                    C[i].withdrawal();
                    break;
                }
            }
            if (!found) {
                System.out.println("Search failed! Account doesn't exist..!!");
            }
            break;
        case 5:
            System.out.println("See you soon...");
            break;
    }
}
while (ch != 5);
```

```
    }
  }
```

2: Write a java program using for loop find multiplication table using scanner class

```
package symbiosis;
  import java.util.*;
   public class Example {
       public static void main(String[] args)
          {
                int no;
                System.out.println("Enter Number");
                Scanner in = new Scanner(System.in);
                no = in.nextInt();
                System.out.println("Multiplication table of "+no+" is :-");
                for ( int i = 1 ; i <= 10 ; i++ )
                System.out.println(no+"*"+i+" = "+(no*i));
      }
   }
```

3: Write a java program print employee information using get and set method (ID,name,salary,city,state,country)

```
class EmployeeDetails {
        int emp_id, salary;
        String name, address, department, email;
        public int getEmp_id() {
                return emp_id;
        }
        public void setEmp_id(int emp_id) {
                this.emp_id = emp_id;
        }
        public int getSalary() {
                return salary;
        }
        public void setSalary(int salary) {
                this.salary = salary;
        }
        public String getName() {
                return name;
        }
        public void setName(String name) {
                this.name = name;
        }
        public String getAddress() {
```

```
		return address;
	}
	public void setAddress(String address) {
		this.address = address;
	}
	public String getDepartment() {
		return department;
	}

	public void setDepartment(String department) {
		this.department = department;
	}

	public String getEmail() {
		return email;
	}
	public void setEmail(String email) {
		this.email = email;
	}

//Overriding toString() method
	@Override
	public String toString() {
		return "Employee [emp_id = " + emp_id + ", salary = " + salary + ", name
= " + name + ", address = " + address
				+ ", department = " + department + ", email = " + email +
"]";
	}

}

public class Yasin {

	public static void main(String args[]) {
		EmployeeDetails emp = new EmployeeDetails();
		emp.setEmp_id(06);
		emp.setName("Yasin Tamboli");
		emp.setDepartment("IT");
		emp.setSalary(30000);
		emp.setAddress("Pune");
		emp.setEmail("tamboliyasin02@gmail.com");
		System.out.println(emp);

		int sal = emp.getSalary();
```

```
                int increment = 0;

                if ((sal >= 1000) && (sal <= 1500)) {
                        increment += (sal * 2) / 100;
                        sal = sal + increment;
                        emp.setSalary(sal);
                        System.out.println("\n Salary is incremented \n");
                        System.out.println(emp);

                } else if ((sal >= 1500) && (sal <= 20000)) {
                        increment += (sal * 5) / 100;
                        sal = sal + increment
                        emp.setSalary(sal);
                        System.out.println("\n Salary is incremented \n");
                        System.out.println(emp);
                } else {
                        System.out.println("\n Salary is not incremented \n");
                        System.out.println(emp);
                }
        }
}
```

Output :

```
   Employee [emp_id = 6, salary = 30000, name = Yasin Tamboli, address = Pune,
department = IT, email = tamboliyasin02@gmail.com]
 Salary is not incremented
Employee [emp_id = 6, salary = 30000, name = Yasin Tamboli, address = Pune,
department = IT, email = tamboliyasin02@gmail.com]
```

4:Write a java program find area of circle and area of rectangle using constructor with scanner class

```
package symbiosis;
import java.util.*;
public class Yasin {
        double area;
        Yasin(double r) {
                area = (22 * r * r) / 7;
        }

        public static void main(String args[]) {
                Scanner s = new Scanner(System.in);
                System.out.println("Enter the radius:");
                double rad = s.nextDouble();
                Yasin a = new Yasin(rad);
```

```
                System.out.println("Area of Circle is: " + a.area);
        }
    }
```

Output:

Enter the radius:

15

Area of Circle is: 707.1428571428571

5: Write a java program find addition and division using constructor with scanner class

```
    package symbiosis;
    import java.util.*;
    public class Yasin {

        Yasin(double a , double b)
        {
            double c=a+b;
            int sum=(int)c;
            System.out.println("Division "+a/b);
            System.out.println("Sum is "+sum);

        }

        public static void main(String args[]) {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter the first Number:");
            double a = s.nextDouble();
            System.out.println("Enter the Second Number:");
            double b = s.nextDouble();
            Yasin result = new Yasin(a,b);

        }
    }
```

6: Write a java program find Simple rate of interest using parameterized constructor

```
    package symbiosis;
    import java.util.*;
    public class Yasin {
        Yasin(double principal, double time, double rate) {
            double interest = (principal * time * rate) / 100;

            System.out.println("Principal: " + principal);
            System.out.println("Interest Rate: " + rate);
            System.out.println("Time Duration: " + time);
            System.out.println("Simple Interest: " + interest);
        }
```

```
        public static void main(String args[]) {
            Scanner s = new Scanner(System.in);
            System.out.print("Enter the principal: ");
            double principal = s.nextDouble();

            System.out.print("Enter the rate: ");
            double rate = s.nextDouble();

            System.out.print("Enter the time: ");
            double time = s.nextDouble();
            Yasin result = new Yasin(principal, rate, time);

        }
    }
```

Output :

```
    Enter the principal: 500000
    Enter the rate: 15
    Enter the time: 5
    Principal: 500000.0
    Interest Rate: 5.0
    Time Duration: 15.0
    Simple Interest: 375000.0
```