1. Write a Java program to read and display employee information name, id, gender with department name, work given with loan information, loan amount using hierarchical inheritance

```
class Employee{
  String emp_name;
  int emp_id;
  String emp_gender;
  Employee(String name,int id,String gender){
    this.emp_name=name;
    this.emp_id=id;
    this.emp_gender=gender;
 }
  Employee(){
    this.emp_name="";
    this.emp_id=0;
    this.emp_gender="";
 }
class Department extends Employee(
```

```
String emp_department;
 String emp_work_assinged;
 Department(String department,String work){
    super();
    this.emp_department=department;
    this.emp_work_assinged=work;
 }
 Department(){
    super();
    this.emp_department="";
    this.emp_work_assinged="";
 }
class LoanAmount extends Employee{
 double emp_amount;
 String emp_loan_details;
 LoanAmount(double amount, String details){
    super();
    this.emp_amount=amount;
```

```
this.emp_loan_details=details;
     LoanAmount(){
    super();
    this.emp_amount=0;
    this.emp_loan_details="";
 }
public class EmployeeDetails {
  public static void main(String[] args){
    Employee e=new Employee("Manoj",109,"Male");
    Department d=new Department("FullStack", "AI Driven Nuclear Reactor");
    LoanAmount a = new LoanAmount(1000000, "MernStack");
    System.out.println();
    System.out.println("Employee name: "+e.emp_name);
    System.out.println("Employee id:"+e.emp_id);
    System.out.println("Employee gender:"+e.emp_gender);
    System.out.println("Employee department:"+d.emp_department);
    System.out.println("Employee work:"+d.emp_work_assinged);
```

```
System.out.println("Employee fund amount: "+a.emp_amount);
    System.out.println("Employee details: "+a.emp_loan_details);
// output
// Employee name :Manoj
// Employee id :109
// Employee gender:Male
// Employee department :FullStack
// Employee work :AI Driven Nuclear Reactor
// Employee fund amount :1000000.0
// Employee details :MernStack
```

2. Write a Java program to create a class called 'Student' with the data members 'usn', 'name', and 'age'. Using suitable inheritance ('usn', 'name', 'age'), create the class 'UGStudent' having data members as 'semester', 'fees', 'cgpa', and 'stipend'. Display the details of student information and UG details.

```
class Student{
  String student_name;
  String student_usn;
  int student_age;
  Student(){
    this.student_name="";
    this.student_usn="";
    this.student_age=0;
 }
  Student(String name, String usn, int age){
    this.student_name=name;
    this.student usn=usn:
    this.student_age=age;
class UGStudent extends Student{
```

```
String student_semester;
double student_fees;
double student_cgpa;
double student_stipend;
UGStudent(){
  super();
  this.student_semester="";
  this.student_cgpa=0;
  this.student_fees=0;
  this.student_stipend=0;
}
UGStudent(String name,int age, String usn, String sem, double fees, double
    cgpa,double stipend){
  super(name,usn,age);
  this.student_cgpa=cgpa;
  this.student semester=sem;
  this.student_stipend=stipend;
  this.student_fees=fees;
```

```
public class students {
  public static void main(String[] args){
    UGStudent s1=new
      UGStudent("Manoj",19,"4NI22IS109","Third",98600.0,8.5,10000000.0);
    System.out.println("Student name: "+s1.student_name);
    System.out.println("Student age:"+s1.student_age);
    System.out.println("Student usn:"+s1.student_usn);
    System.out.println("Student sem:"+s1.student_semester);
    System.out.println("Student fees:"+s1.student_fees);
    System.out.println("Student cgpa:"+s1.student_cgpa);
    System.out.println("Student stipend:"+s1.student_stipend);
  }
//output
```

