**JAVA LAB-1**

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Employee.java

package pkgOrgStructure;   
classEmployee{   
privateintempId;   
privateStringempNm;   
privateintempAge;   
privateStringempPanCrd;   
privateStringempAadharCrd;   
privateStringempDept;   
privatedoubleempSal;   
privateStringempContactNbr;   
privateintempExp;

publicEmployee(intempId,StringempNm,intempAge,String empPanCrd,StringempAadharCrd,StringempDept,doubleempSal,String empContactNbr,intempExp){   
 setEmpId(empId);   
 setEmpNm(empNm);   
 setEmpAge(empAge);   
 setEmpPanCrd(empPanCrd);   
 setEmpAadharCrd(empAadharCrd);   
 setEmpDept(empDept);   
 setEmpSal(empSal);   
 setEmpContactNbr(empContactNbr);   
 setEmpExp(empExp);   
}

publicvoidsetEmpId(intempId){this.empId=empId;} publicvoidsetEmpNm(StringempNm){this.empNm=empNm;} publicvoidsetEmpAge(intempAge){this.empAge=empAge;} publicvoidsetEmpPanCrd(StringempPanCrd){this.empPanCrd= empPanCrd;}

publicvoidsetEmpAadharCrd(StringempAadharCrd){   
this.empAadharCrd=empAadharCrd;}   
publicvoidsetEmpDept(StringempDept){this.empDept=empDept;} publicvoidsetEmpSal(doubleempSal){this.empSal=empSal;} publicvoidsetEmpContactNbr(StringempContactNbr){   
this.empContactNbr=empContactNbr;}   
publicvoidsetEmpExp(intempExp){this.empExp=empExp;}

publicintgetEmpId(){returnempId;}   
publicStringgetEmpNm(){returnempNm;}   
publicintgetEmpAge(){returnempAge;}   
publicStringgetEmpPanCrd(){returnempPanCrd;}   
publicStringgetEmpAadharCrd(){returnempAadharCrd;} publicStringgetEmpDept(){returnempDept;}   
publicdoublegetEmpSal(){returnempSal;}   
publicStringgetEmpContactNbr(){returnempContactNbr;} publicintgetEmpExp(){returnempExp;}

publicdoublecomputeSalary(){   
 returnempSal;   
}

publicvoiddetails(){   
 System.***out***.println("Employee ID: "+empId); System.***out***.println("Name: "+empNm);   
 System.***out***.println("Age: "+empAge);   
 System.***out***.println("Department: "+empDept); System.***out***.println("Salary: "+empSal); System.***out***.println("Experience: "+empExp); }   
}

Manager.java

|  |
| --- |
| package pkgOrgStructure; |

|  |
| --- |
| classManagerextendsEmployee{ |

|  |
| --- |
| privateintnoOfTeams; |

|  |
| --- |
| privateintnoOfReportees; |

|  |
| --- |
| publicManager(intempId,StringempNm,intempAge,String |

|  |
| --- |
| empPanCrd,StringempAadharCrd,StringempDept,doubleempSal,String |

|  |
| --- |
| empContactNbr,intempExp,intnoOfTeams,intnoOfReportees){ |

super(empId,empNm,empAge,empPanCrd,empAadharCrd,empDept, empSal,empContactNbr,empExp);   
 setNoOfTeams(noOfTeams);   
 setNoOfReportees(noOfReportees);   
}

publicvoidsetNoOfTeams(intnoOfTeams){this.noOfTeams= noOfTeams;}   
publicvoidsetNoOfReportees(intnoOfReportees){   
this.noOfReportees=noOfReportees;}   
publicintgetNoOfTeams(){returnnoOfTeams;}   
publicintgetNoOfReportees(){returnnoOfReportees;}

*@Override*   
publicdoublecomputeSalary(){   
 returnsuper.computeSalary()\*8; }

*@Override*   
publicvoiddetails(){   
 super.details();   
 System.***out***.println("No. of Teams: "+noOfTeams);   
 System.***out***.println("No. of Reportees: "+noOfReportees); }   
}

Developer.java

|  |
| --- |
| package pkgOrgStructure; |

|  |
| --- |
| classDeveloperextendsEmployee{ |

|  |
| --- |
| privateStringnameOfTheTeam; |

|  |
| --- |
| privateStringnameOfManager; |

|  |
| --- |
| privateStringtechnologies; |

|  |
| --- |
| publicDeveloper(intempId,StringempNm,intempAge,String |

|  |
| --- |
| empPanCrd,StringempAadharCrd,StringempDept,doubleempSal,String |

|  |
| --- |
| empContactNbr,intempExp,StringnameOfTheTeam,StringnameOfManager, |

|  |
| --- |
| Stringtechnologies){ |

|  |
| --- |
| super(empId,empNm,empAge,empPanCrd,empAadharCrd,empDept, |

empSal,empContactNbr,empExp);   
setNameOfTheTeam(nameOfTheTeam); setNameOfManager(nameOfManager);

|  |
| --- |
| setTechnologies(technologies); |

}

publicvoidsetNameOfTheTeam(StringnameOfTheTeam){ this.nameOfTheTeam=nameOfTheTeam;}   
publicvoidsetNameOfManager(StringnameOfManager){ this.nameOfManager=nameOfManager;}   
publicvoidsetTechnologies(Stringtechnologies){   
this.technologies=technologies;}   
publicStringgetNameOfTheTeam(){returnnameOfTheTeam;} publicStringgetNameOfManager(){returnnameOfManager;} publicStringgetTechnologies(){returntechnologies;}

*@Override*   
publicdoublecomputeSalary(){   
 returnsuper.computeSalary()\*6; }

*@Override*   
publicvoiddetails(){   
 super.details();   
 System.***out***.println("Team: "+nameOfTheTeam);   
 System.***out***.println("Manager: "+nameOfManager); System.***out***.println("Technologies: "+technologies); }   
}

Tester.java

|  |
| --- |
| package pkgOrgStructure; |

|  |
| --- |
| classTesterextendsEmployee{ |

|  |
| --- |
| privateStringnameOfTheTeam; |

|  |
| --- |
| privateStringnameOfManager; |

|  |
| --- |
| privateStringtestingType; |

|  |
| --- |
| publicTester(intempId,StringempNm,intempAge,String |

|  |
| --- |
| empPanCrd,StringempAadharCrd,StringempDept,doubleempSal,String |

|  |
| --- |
| empContactNbr,intempExp,StringnameOfTheTeam,StringnameOfManager, |

|  |
| --- |
| StringtestingType){ |

|  |
| --- |
| super(empId,empNm,empAge,empPanCrd,empAadharCrd,empDept, |

empSal,empContactNbr,empExp);   
setNameOfTheTeam(nameOfTheTeam); setNameOfManager(nameOfManager);

|  |
| --- |
| setTestingType(testingType); |

}

publicvoidsetNameOfTheTeam(StringnameOfTheTeam){   
this.nameOfTheTeam=nameOfTheTeam;}   
publicvoidsetNameOfManager(StringnameOfManager){   
this.nameOfManager=nameOfManager;}   
publicvoidsetTestingType(StringtestingType){this.testingType =testingType;}   
publicStringgetNameOfTheTeam(){returnnameOfTheTeam;}   
publicStringgetNameOfManager(){returnnameOfManager;}   
publicStringgetTestingType(){returntestingType;}

*@Override*   
publicdoublecomputeSalary(){   
 returnsuper.computeSalary()\*5; }

*@Override*   
publicvoiddetails(){   
 super.details();   
 System.***out***.println("Team: "+nameOfTheTeam);   
 System.***out***.println("Manager: "+nameOfManager); System.***out***.println("Testing Type: "+testingType); }   
}

EmployeeDemo.java

|  |
| --- |
| package pkgOrgStructure; |

|  |
| --- |
| classEmployeeDemo{ |

|  |
| --- |
| publicstaticvoidmain(String[]args){ |

|  |
| --- |
| Employeeemp=newEmployee(101,"Amit",30,"PAN123", |

|  |
| --- |
| "AAD123","HR",50000,"9876543210",5); |

|  |
| --- |
| Managermgr=newManager(102,"Ravi",40,"PAN456","AAD456", |

|  |
| --- |
| "IT",80000,"8765432109",10,3,10); |

|  |
| --- |
| Developerdev=newDeveloper(103,"Priya",28,"PAN789", |

|  |
| --- |
| "AAD789","Development",70000,"7654321098",4,"Backend Team", |

|  |
| --- |
| "Ravi","Java, Python"); |

Testertester=newTester(104,"Neha",32,"PAN321", "AAD321","QA",60000,"6543210987",6,"Testing Team","Ravi",

|  |
| --- |
| "Automation"); |

|  |
| --- |
| System.***out***.println("\nEmployee Details:"); |

emp.details();

|  |
| --- |
| System.***out***.println("Computed Salary: "+emp.computeSalary()); |

|  |
| --- |
| System.***out***.println("\nManager Details:"); |

mgr.details();

|  |
| --- |
| System.***out***.println("Computed Salary: "+mgr.computeSalary()); |

|  |
| --- |
| System.***out***.println("\nDeveloper Details:"); |

dev.details();

|  |
| --- |
| System.***out***.println("Computed Salary: "+dev.computeSalary()); |

|  |
| --- |
| System.***out***.println("\nTester Details:"); |

tester.details();   
 System.***out***.println("Computed Salary: "+ tester.computeSalary());   
}   
}

Output:-



