Main Class

package Abstract\_lab6;

import java.util.Scanner;

public class MainClass {

public static void main(String[] args) {

Scanner scn = new Scanner(System.in);

student st1 = new student(){} ;

System.out.print("Enter student id: ");

int id = scn.nextInt();

st1.setId(id);

String name = "Nowshin";

st1.setName(name);

String home\_dist = "KG";

st1.setHome\_district(home\_dist);

System.out.print("Enter student height: ");

float height = scn.nextFloat();

st1.setHeight(height);

char gender = 'F';

st1.setGender(gender);

String dept = "CSE";

st1.setDepartment(dept);

System.out.print("Enter student cgpa: ");

float cg = scn.nextFloat();

st1.setCgpa(cg);

System.out.println("\nCalling Abstract Methods.");

st1.personalAddress(st1.id, st1.home\_district, st1.height, st1.gender);

System.out.println("\nCalling Abstract Methods.");

st1.academicInfo(st1.id, st1.name, st1.department, st1.cgpa);

System.out.println("\nCalling Non Abstract Methods.");

st1.nonAbstractMethod(); }

}

Student Class

package Abstract\_lab6;

public abstract class PersonalInfo {

int id;

String home\_district;

double height;

char gender;

String name;

String department;

float cgpa;

abstract void personalAddress(int id, String home\_district, double height, char gender);

abstract void academicInfo(int id, String name, String department, float cgpa);

void nonAbstractMethod(){

System.out.println("non abstract method");}}

Personal info Class

package Abstract\_lab6;

public abstract class student extends PersonalInfo{

void personalAddress(int id, String home\_district, double height, char gender){

System.out.println("Id: " + id);

System.out.println("Home district: " + home\_district);

System.out.println("Height: " + height);

System.out.println("Gender: " + gender);

}

void academicInfo(int id, String name, String department, float cgpa){

System.out.println("Name: " + name);

System.out.println("Department: " + department);

System.out.println("CGPA: " + cgpa);

}

// setter

public void setId(int id) {

this.id = id; }

public void setHome\_district(String home\_district) {

this.home\_district = home\_district; }

public void setHeight(double height) {

this.height = height; }

public void setGender(char gender) {

this.gender = gender; }

public void setName(String name) {

this.name = name;

}

public void setDepartment(String department) {

this.department = department; }

public void setCgpa(float cgpa) {

this.cgpa = cgpa; }

// Getter

public int getId() {

return id;

}

public String getHome\_district() {

return home\_district; }

public double getHeight() {

return height; }

public char getGender() {

return gender; }

public String getName() {

return name; }

public String getDepartment() {

return department; }

public float getCgpa() {

return cgpa; }

}