Exercício 1:

Classe Author:

public class Author {

private String name;

private String email;

private char gender;

//Construtor não default

public Author(String name, String email, char gender) {

this.name = name;

this.email = email;

this.gender = gender;

}

public String getName() {

return this.name;

}

public void setEmail(String email) {

this.email = email;

}

public String getEmail() {

return this.email;

}

public char getGender() {

return this.gender;

}

public String toString() {

return "Author[name="+name+", email="+email+", gender="+gender+"]";

}

}

Classe TestAuthor:

import java.util.Scanner;

public class TestAuthor {

public static void main(String[] args) {

//Inicializando a entrada de dados

Scanner tela = new Scanner(System.in);

//Inserção dos valores das variáveis

System.out.print("Digite seu nome: ");

String name = tela.next();

System.out.print("\nDigite seu e-mail: ");

String email = tela.next();

System.out.print("\nDigite seu gênero: ");

char gender = tela.next().charAt(0);

//Instância da classe

Author variavelTeste = new Author(name, email, gender);

//Teste dos Getters

System.out.println(variavelTeste.getName());

System.out.println(variavelTeste.getEmail());

System.out.println(variavelTeste.getGender());

//Teste do toString()

System.out.println(variavelTeste.toString());

System.out.println();

//Teste do Setter

System.out.println("Digite um novo e-mail de acesso: ");

email = tela.next();

variavelTeste.setEmail(email);

//Novo teste do toString()

System.out.println(variavelTeste.toString());

}

}

Exercício 2:

Classe Book:

public class Book {

private String name;

private Author[] authors;

private double price;

private int qty = 0;

public Book(String name, Author[] authors, double price) {

this.name = name;

this.authors = authors;

this.price = price;

}

public Book(String name, Author[] authors, double price, int qty) {

this.name = name;

this.authors = authors;

this.price = price;

this.qty = qty;

}

public String getName() {

return name;

}

public Author[] getAuthors() {

return authors;

}

public double getPrice() {

return price;

}

public int getQty() {

return qty;

}

public void setQty(int qty) {

this.qty = qty;

}

public String toString(int number) {

return "Book[name="+name+", authors={"+authors[number]+"}, price="+price+", qty="+qty;

}

public String getAuthorNames() {

for(int i= 0; i < authors.length; i++) {

System.out.println("\nAutores: "+authors[i]+"");

}

return "";

}

}

Classe TestBook:

import java.util.Scanner;

public class TestBook {

public static void main(String[] args) {

Scanner tela = new Scanner(System.in);

System.out.print("Digite o nome do livro: ");

String nomeLivro = tela.nextLine();

Author[] autor = new Author[2];

autor[0] = new Author("Raphael", "inacioraphael9@gmail.com", 'm');

System.out.print("\nDigite o valor do livro: ");

double valorLivro = tela.nextDouble();

Book testeBook = new Book(nomeLivro, autor, valorLivro);

System.out.println(testeBook.toString(0));

autor[1] = new Author("Liniker", "balajunior@gmail.com", 'm');

testeBook = new Book(nomeLivro, autor, valorLivro);

System.out.println(testeBook.toString(1));

System.out.println(testeBook.getAuthorNames());

}

}

Exercício 3:

CLASSE PERSON

public class Pessoa {

private String name;

private String address;

public Pessoa(String name, String address){

this.name = name;

this.address = address;

}

public String getName(){

return this.name;

}

public String getAddress(){

return this.address;

}

public void setAddress(String address) {

this.address = address;

}

public String toString(){

return "Person [Name=" + getName() + ", Address=" + getAddress() +"]";

}

}

CLASSE STUDENT

public class Student extends Pessoa {

private String program;

private int year;

private double fee;

public Student(String name, String address, String program, int year, double fee) {

super(name, address);

this.program = program;

this.year = year;

this.fee = fee;

}

public String getProgram() {

return this.program;

}

public void setProgram(String program) {

this.program = program;

}

public int getYear() {

return this.year;

}

public void setYear(int year) {

this.year = year;

}

public double getFee() {

return this.fee;

}

public void setFee(double fee) {

this.fee = fee;

}

public String toString(){

return "Sudent[" + super.toString() + ", Program=" + getProgram() + ", Year=" + getYear() + ", Fee=" + getFee() + "]";

}

}

CLASSE STAFF

public class Staff extends Pessoa{

private String school;

private double pay;

public Staff(String name, String address, String school, double pay) {

super(name, address);

this.school = school;

this.pay = pay;

}

public String getSchool() {

return this.school;

}

public void setSchool(String school) {

this.school = school;

}

public double getPay() {

return this.pay;

}

public void setPay(double pay) {

this.pay = pay;

}

public String toString() {

return "Staff[" + super.toString() + ", School=" + getSchool() + ", Pay=" + getPay() + "]";

}

}

CLASSE PRINCIPAL

import java.util.Scanner;

public class ClassePrincipal {

public static void main(String[] args) {

Scanner ler = new Scanner(System.***in***);

String nome, endereco;

System.***out***.print("Entre com um nome: ");

nome = ler.next();

System.***out***.print("Entre com um endereço: ");

endereco = ler.next();

Pessoa pessoa = new Pessoa(nome,endereco);

System.***out***.println(pessoa.toString());

System.***out***.print("Aluno ou Staff? [Escolha, respectivamente 0 ou 1]: ");

int status = ler.nextInt();

if(status == 0) {

String program;

int year;

double fee;

System.***out***.print("Entre com um program: ");

program = ler.next();

System.***out***.print("Entre com um year: ");

year = ler.nextInt();

System.***out***.print("Entre com um fee: ");

fee = ler.nextDouble();

Student aluno = new Student(nome, endereco, program, year, fee);

aluno.setProgram(program);

aluno.setYear(year);

aluno.setFee(fee);

System.***out***.println(aluno.toString());

}

else if(status == 1) {

String school;

double pay;

System.***out***.print("Entre com um school: ");

school = ler.next();

System.***out***.print("Entre com um pay: ");

pay = ler.nextDouble();

Staff staff = new Staff(nome, endereco, school, pay);

staff.setSchool(school);

staff.setPay(pay);

System.***out***.println(staff.toString());

}

ler.close();

}

}