**Java assignment**

**Q1.**

🡪 import java.util.Scanner;

class Demo {

public static void main(String args[]) {

//System.out.println();

Scanner sc = new Scanner(System.in);

boolean f1= false;

boolean f2=false;

boolean f3=false;

//boolean f=false;

boolean f=false;

int k1, counter=0;

String k2="";

/\*do{

System.out.println("ONLINE QUIZ");

//System.out.println("1. ENGLISH 2. MATHS 3. G.K.");

}\*/

while(f = false);

{ System.out.println("1. ENGLISH 2. MATHS 3. G.K.");

int a = sc.nextInt();

switch(a)

{

case 1:

if(f1 == true)

{

System.out.println("It is already done choose another one ");

break;

}

else

{

f1=true;

System.out.println("How many vowels are there");

k1=sc.nextInt();

if(k1==5){counter++;};

System.out.println("How many alphabets are there");

k1=sc.nextInt();

if(k1==26){counter++;};

System.out.println("i am working \_\_\_\_\_\_ morning.(for/since)");

k2=sc.next();

if(k2.equals("since")== true);

{counter=counter+1;};

//break;

}

//break;

//continue;

case 2:

if(f2 == true)

{

System.out.println("It is already done choose another one ");

break;

}

else

{

f2=true;

System.out.println("what is 2\*5");

k1=sc.nextInt();

if(k1==10){counter++;};

System.out.println("what is 100%6");

k1=sc.nextInt();

if(k1==16){counter++;};

System.out.println("Is 4545 divisible by 5.(y or n)");

k2=sc.next();

if(k2.equals("y")==true){counter= counter+1;};

//break;

}

//break;

//continue;

case 3:

if(f3==true)

{

System.out.println("It is already done choose another one ");

break;

}

else

{

f1=true;

System.out.println("How many states in india");

k1=sc.nextInt();

if(k1==28){counter++;};

System.out.println("how many ut in india");

k1=sc.nextInt();

if(k1==9){counter++;};

System.out.println("hat is the capital of india");

k2=sc.next();

k2.toLowerCase();

if(k2.equals("delhi")== true){counter++;};

//break;

}

break;

default:

System.out.println("Choose b/w 1 or 2 or 3");

}

if(f1 == true){

if (f2 == true)

{ if(f3 == true)

{

f = true;

}

}}

System.out.println("Your score is " + counter + " out of 9");

if(((counter\*100/9))> 70 && ((counter\*100/9)) <90)

{

System.out.println("your score is " + ((counter\*100/9) + 10));

}

else if(((counter/9)\*100)>90)

{

System.out.println("Passed");

}

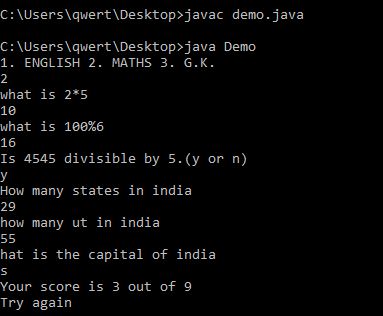
else{

System.out.println("Try again");

}

}

}}



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Q2

import java.util.Scanner;

class Demo {

public static void main(String args[]) {

//System.out.println();

Scanner sc = new Scanner(System.in);

byte a;

System.out.println("Enter number of records to enter");

a=sc.nextByte();

int id[] = new int[a];

String name[]= new String[a];

int salary[]= new int[a];

String desg[]= new String[a];

double Salary[] = new double[a];

System.out.println("Enter the id,name,salary,desg");

for(int i=0;i<a;i++)

{System.out.println("Enter the record no" + (i+1));

id[i]=sc.nextInt();

name[i]=sc.next();

salary[i]=sc.nextInt();

desg[i]=sc.next();

}

for(int i=0;i<a;i++)

{ desg[i].toLowerCase();

if(desg[i].equals("manager"))

{

Salary[i]= salary[i] + 0.15\*salary[i] + 0.10\*salary[i] + 0.07\*salary[i] - 0.05\*salary[i];

}

else if(desg[i].equals("developer"))

{

Salary[i]= salary[i] + 0.10\*salary[i] + 0.10\*salary[i] + 0.07\*salary[i] - 0.05\*salary[i];

}

else

{

Salary[i] = salary[i] + 0.10\*salary[i] + 0.07\*salary[i];

}

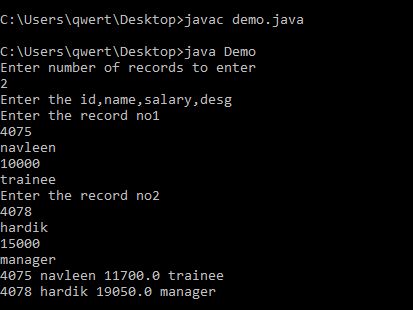
}

for(int i=0;i<a;i++)

{

System.out.println(id[i] + " " + name[i] + " " + Salary[i] + " " + desg[i]);

}}}



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Q3.ASSIGNMENT-3

import java.util.Scanner;

class EmployeeDetails{

int k;

Scanner sc = new Scanner(System.in);

EmployeeDetails(int k1)

{k = k1;

}

int id[] = new int[k];

String name[]= new String[k];

double salary[] = new double[k];

String desg[]= new String[k];

//System.out.println(k);

public void read()

{

for(int i=0;i<k; i++){

System.out.println("Enter the details of employee " + (1 + i));

System.out.println("Enter the id name salary desg of employee no: " + (1+i));

id[i]=sc.nextInt();

name[i]=sc.nextLine();

salary[i]=sc.nextDouble();

desg[i]=sc.nextLine();

}

}

public void calSalary()

{

for(int i=0;i<k;i++)

{ desg[i].toLowerCase();

if(desg[i].equals("manager"))

{

salary[i]= salary[i] + 0.15\*salary[i] + 0.10\*salary[i] + 0.07\*salary[i] - 0.05\*salary[i];

}

else if(desg[i].equals("developer"))

{

salary[i]= salary[i] + 0.10\*salary[i] + 0.10\*salary[i] + 0.07\*salary[i] - 0.05\*salary[i];

}

else

{

salary[i] = salary[i] + 0.10\*salary[i] + 0.07\*salary[i];

}

}

}

public void bonus()

{

// did in cal salary only

}

public void display()

{

for(int i=0;i<k;i++)

{

System.out.println(id[i] + " " + name[i] + " " + salary[i] + " " + desg[i]);

}

}

}

class EmployeeTest{

public static void main(String asd[])

{

Scanner sc1 = new Scanner(System.in);

int a;

System.out.println("Enter number of records to enter");

a=sc1.nextInt();

EmployeeDetails emd = new EmployeeDetails(a);

emd.read();

emd.calSalary();

emd.display();

}

}

OUTPUT:

enter details you want to store:

2

Enter the details of employee 1

Enter the id name salary desg of employee no: 1

4075

navleen

10000

Trainee

Enter the details of employee 2

Enter the id name salary desg of employee no: 2

4078

hardik

15000

Manager

4075 navleen 11700 Developer

4078 hardik 19050 Trainee

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Q4

import java.util.Scanner;

class Employee{

int id;String name;double salary;

Scanner sc=new Scanner(System.in);

Address add=new Address();

void read() {

System.out.println("Enter the id of employee");

id=sc.nextInt();

System.out.println("Enter the name of employee");

name=sc.next();

System.out.println("Enter the salary of employee");

salary=sc.nextDouble();

}

void calsalary() {

double hra,df,pa;

hra=salary\*1/10;

df=salary\*7/100;

pa=salary\*5/100;

salary=salary+hra+df+pa;

System.out.println("salary of employee is "+salary);

}

void display() {

System.out.println("id of employee is "+id);

System.out.println("name of employee is "+name);

}

}

class Manager extends Employee{

int noofmanagers;

void readmgr() {

System.out.println("Enter number of managers");

noofmanagers=sc.nextInt();

add.readadd();

}

void dismgr() {

System.out.println("Number of managers are "+noofmanagers);

add.displayadd();

}

}

class Programmer extends Employee{

String projectname;

void readpgr() {

System.out.println("Enter the project name");

projectname=sc.next();

add.readadd();

}

void dispgr() {

System.out.println("The project name is "+projectname);

}

}

class Address{

String city,state;

int pincode;

Scanner obj=new Scanner(System.in);

void readadd() {

System.out.println("Name of city they are working is ");

city=obj.next();

System.out.println("State of city is");

state=obj.next();

System.out.println("Pincode of city is");

pincode=obj.nextInt();

}

void displayadd() {

System.out.println("Name of city they are working "+city);

System.out.println("State of city is "+state);

System.out.println("Pincode of city is "+pincode);

}

}

class EmployeeDetail {

public static void main(String[] args) {

System.out.println("Manager details ");

Manager mg=new Manager();

mg.read();

mg.readmgr();

mg.calsalary();

System.out.println("\n");

System.out.println("Programmer details ");

Programmer pg=new Programmer();

pg.read();

pg.readpgr();

pg.calsalary();

}

}

Output:

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Q5

import java.util.\*;

class student

{

int sId;

String sName;

int sAge;

int sMarks[] = new int[4];

String sGrade;

void read()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Student ID: ");

sId = sc.nextInt();

System.out.println("Enter the Student Name: ");

sName = sc.next();

System.out.println("Enter the Student Age: ");

sAge = sc.nextInt();

System.out.println("Enter the Student Marks(Physics,Chem,Maths,English): ");

for(int i=0;i<4;i++) {

sMarks[i]=sc.nextInt();

}

}

void calculateGrade()

{

int total=0;

for(int i=0;i<4;i++)

{

total = total + sMarks[i];

}

float avg = total/4.0f;

if(avg > 90.0f)

{

sGrade = "A+";

} else if(avg > 80.0f && avg < 90.0f)

{

sGrade = "A";

} else if(avg > 70.0f && avg < 80.0f)

{

sGrade = "B";

} else if(avg > 55.0f && avg < 70.0f)

{

sGrade = "C";

} else {

sGrade = "D";

}

}

void display()

{

System.out.println("Student Id is = " +sId);

System.out.println("Student Name is = " +sName);

System.out.println("Student Age is = " +sAge);

System.out.println("Student Grade is = "+sGrade);

}

}

class StudentTest

{

public static void main(String args[]){

int n=0;

Scanner obj = new Scanner(System.in);

System.out.println("Enter the value of n");

n= obj.nextInt();

student std[]=new student[n];

for(int i=0;i<n;i++) {

std[i]=new student();

std[i].read();

}

for(int i=0;i<n;i++){

std[i].calculateGrade();

}

for(int i=0;i<n;i++){

std[i].display();

System.out.println();

}

}

}

Output:

C:\Users\qwert\Desktop\Assignment\fullstackzen>java StudentTest

Enter the value of n

2

Enter the Student ID:

4075

Enter the Student Name:

navleen

Enter the Student Age:

22

Enter the Student Marks(Physics,Chem,Maths,English):

87

54

65

78

Enter the Student ID:

4078

Enter the Student Name:

hardik

Enter the Student Age:

45

Enter the Student Marks(Physics,Chem,Maths,English):

98

78

56

86

Student Id is = 4075

Student Name is = navleen

Student Age is = 22

Student Grade is = B

Student Id is = 4078

Student Name is = hardik

Student Age is = 45

Student Grade is = B

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Q6 Mini project 1 ---- Banking (outside eclipse project)

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Q7

import java.util.Scanner;

public class StringExample {

public static void main(String[] args) {

int n;

String temp;

Scanner sc=new Scanner(System.in);

System.out.println("enter number of Strings you want to enter");

n=sc.nextInt();

String str[]=new String[n];

Scanner sc1=new Scanner(System.in);

System.out.println("enter the name");

for(int i=0;i<n;i++) {

str[i]=sc1.nextLine();

}

for(int i=0;i<n;i++) {

for(int j=i+1;j<n;j++) {

if(str[i].compareTo(str[j])>0) {

temp=str[i];

str[i]=str[j];

str[j]=temp;

}

}

}

System.out.println("strings in ascending order");

for(int i=0;i<=n;i++) {

System.out.println(str[i]+" ");

}

}

}

Output:

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Q8

Output

|  |
| --- |
| import java.util.Scanner; |
|  | import java.util.ArrayList; |
|  | public class ComparatorUsage{ |
|  | public static void main(String []args) { |
|  | int n,value,id; |
|  | float salary; |
|  | String name; |
|  | boolean avi=true; |
|  | Scanner sc=new Scanner(System.in); |
|  | System.out.println("enter number of employee details you want to store"); |
|  | n=sc.nextInt(); |
|  | ArrayList<Employee> emp = new ArrayList<Employee>(); |
|  | for(int i=0;i<n;i++) { |
|  | System.out.println("enter id"); |
|  | id=sc.nextInt(); |
|  | System.out.println("enter name"); |
|  | name=sc.next(); |
|  | System.out.println("enter salary"); |
|  | salary=sc.nextFloat(); |
|  | emp.add(new Employee(id,name,salary)); |
|  | } |
|  |  |
|  | do { |
|  |  |
|  | System.out.println("enter which option you want"); |
|  | System.out.println("1.sort id in asc"); |
|  | System.out.println("2.Sort id in desc"); |
|  | System.out.println("3.sort name in asc"); |
|  | System.out.println("4.sort name in desc "); |
|  | System.out.println("5.sort salary in asc"); |
|  | System.out.println("6.sort salary in desc"); |
|  | value=sc.nextInt(); |
|  |  |
|  | switch(value) { |
|  | case 1: |
|  | Collections.sort(emp,new SortIdAsc()); |
|  | Iterator<Employee> e1=emp.iterator(); |
|  | while(e1.hasnext()) { |
|  | System.out.println(e1.next); |
|  |  |
|  | }avi=false; |
|  | break; |
|  | case 2: |
|  | Collections.sort(emp,new SortIDesc()); |
|  | Iterator<Employee> e2=emp.iterator(); |
|  | while(e2.hasnext()) { |
|  | System.out.println(e2.next); |
|  |  |
|  | }avi=false; |
|  | break; |
|  |  |
|  | case 3: |
|  | Collections.sort(emp,new SortNameAsc()); |
|  | Iterator<Employee> e3=emp.iterator(); |
|  | while(e3.hasnext()) { |
|  | System.out.println(e3.next); |
|  |  |
|  | }avi=false; |
|  | break; |
|  |  |
|  | case 4: |
|  | Collections.sort(emp,new SortNameDesc()); |
|  | Iterator<Employee> e4=emp.iterator(); |
|  | while(e4.hasnext()) { |
|  | System.out.println(e4.next); |
|  |  |
|  | } avi=false; |
|  | break; |
|  | case 5: |
|  | Collections.sort(emp,newSortSalaryAsc()); |
|  | Iterator<Employee> e5=emp.iterator(); |
|  | while(e5.hasnext()) { |
|  | System.out.println(e5.next); |
|  | } avi=false; |
|  | break; |
|  | case 6: |
|  | Collections.sort(emp,newSortSalaryDesc()); |
|  | Iterator<Employee> e6=emp.iterator(); |
|  | while(e6.hasnext()) { |
|  | System.out.println(e6.next); |
|  | } avi=false; |
|  | break; |
|  | default: |
|  | System.out.println("enter valid option"); |
|  | break; |
|  |  |
|  |  |
|  | } |
|  | }while(avi); |
|  | } |
|  | } |

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2nd mini project sprint1 outsise

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Q9

Output:

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