*1:Create Student class with rollno,name address.*

*Write business logic for auto incrment of rollno(don't accept roll no from user)*

*Write parameterised constr for accepting name and address only*

*Write getter and setter and display function*

*1.1 Test Student class by creating 5 diff object.and display aal details(chk rollno created automatically)*

*1.2 Create an array of 5 students and show only names*

*1.3 modify 1.2 for showing students details who lives in Pune*

**import** java.util.Scanner;

**class** Student {

**private** String address;

**private** String name ;

**private** **int** roll\_no ;

**private** **static** **int** *roll*= 1;

Student(String name , String address ){ //parameterized constructor

roll\_no = *roll*++;

**this**.name = name;

**this**.address = address;

}

//Accessors , Modulers

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getRoll\_no() {

**return** roll\_no;

}

**public** **void** display() {

System.***out***.print("name : " + getName());

System.***out***.print(" Address : " + getAddress());

System.***out***.println(" Rol No : " + getRoll\_no());

System.***out***.println("--------------------------------------------");

}

}

**public** **class** Day6\_Java {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

System.***out***.println("Enter your Choice");

System.***out***.println("1.Register New Students 2.Display Students Info 3.Display Names 4.Display Names who lives in Pune 5.Exit ");

Student[] bk = **new** Student[5];

**boolean** status = **true**;

**while**(status == **true**) {

**int** choice = sc.nextInt();

**switch**(choice) {

**case** 1:

System.***out***.println("Enter Name , address :");

**for**(**int** i=0;i<5;i++) {

String name = sc.next();

String address = sc.next();

bk[i] = **new** Student(name , address );

System.***out***.println("------------------------------------------");

}

System.***out***.println("Done!");

**break**;

**case** 2:

System.***out***.println("Below are the Accounts Info");

**for**(**int** i=0;i<5;i++) {

bk[i].display();

System.***out***.println("------------------------------------------");

}

**break**;

**case** 3:

System.***out***.println("Below are the Names of Student");

**for**(**int** i=0;i<5;i++) {

System.***out***.println(bk[i].getName() + "\t" + bk[i].getRoll\_no() );

System.***out***.println("------------------------------------------");

}

**break**;

**case** 4:

System.***out***.println("Below are the Names of Student who lives in Pune..");

**for**(**int** i=0;i<5;i++) {

**if**(bk[i].getAddress().equals("Pune")) {

System.***out***.println(bk[i].getName() + "\t" + bk[i].getRoll\_no() );

System.***out***.println("------------------------------------------");

}

}

**break**;

**default** :

status = **false**;

System.***out***.println("Exiting...");

}

}

}

}

Enter your Choice

1.Register New Students 2.Display Students Info 3.Display Names 4.Display Names who lives in Pune 5.Exit

1

Enter Name , address :

name1 Pune

------------------------------------------

name2 Mumbai

------------------------------------------

name3 Pune

------------------------------------------

name4 Nagpur

------------------------------------------

name5 Pune

------------------------------------------

Done!

2

Below are the Accounts Info

name : name1 Address : Pune Rol No : 1

--------------------------------------------

------------------------------------------

name : name2 Address : Mumbai Rol No : 2

--------------------------------------------

------------------------------------------

name : name3 Address : Pune Rol No : 3

--------------------------------------------

------------------------------------------

name : name4 Address : Nagpur Rol No : 4

--------------------------------------------

------------------------------------------

name : name5 Address : Pune Rol No : 5

--------------------------------------------

------------------------------------------

4

Below are the Names of Student who lives in Pune..

name1 1

------------------------------------------

name3 3

------------------------------------------

name5 5

------------------------------------------

5

Exiting...

**2:Create Math class for testing MethodOverloading Concept**

**Test it using tesrter class**

**import** java.util.Scanner;

**class** Math {

//Methid Overloading..

**public** **static** **int** add(**int** a1, **int** a2) {

**return** a1+a2;

}

**public** **static** **double** add(**int** a1, **double** a2) {

**return** a1+a2;

}

**public** **static** **double** add(**double** a1, **int** a2) {

**return** a1+a2;

}

**public** **static** **double** add(**double** a1, **double** a2) {

**return** a1+a2;

}

**public** **static** String add(String a1, String a2) {

**return** a1+a2;

}

}

**public** **class** Day6\_Java {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

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

System.***out***.println("Enter two int variables to return sum of : ");

**int** a1 = sc.nextInt();

**int** a2 = sc.nextInt();

System.***out***.println("Sum : " + Math.*add*(a1, a2));

System.***out***.println("Enter two int , double variables to return sum of : ");

**double** a3 = sc.nextDouble();

**double** a4 = sc.nextDouble();

System.***out***.println("Sum : " + Math.*add*(a3, a4));

System.***out***.println("Enter two strings variables to return sum of : ");

String s1 = sc.next();

String s2 = sc.next();

System.***out***.println("Concat : " + Math.*add*(s1, s2));

}

}

Enter two int variables to return sum of :

12 14

Sum : 26

Enter two int , double variables to return sum of :

12 12.55

Sum : 24.55

Enter two strings variables to return sum of :

abc def

Concat : abcdef

**3:Create diff package and add class inside that.**

**Try to access one package class in another package....**

**(chk default access specifier)**

****

Enter two int variables to return sum of :

12 16

Sum : 28.0

Enter two int , double variables to return sum of :

12 1.7777

Enter two strings variables to return sum of :

abc deff

Concat : abcdeff