**Student.java**

package Exercise;

import java.util.Scanner;

public class Student {

private String firstName;

private String lastName;

private int gradeYear;

private String studentID;

private String courses;

private int tutionBalance;

private int costOfCourses = 600;

private static int Id=1000;

//constructor:user enter name and year

public Student() {

Scanner in = new Scanner(System.in);

System.out.println("Enter student first name: ");

this.firstName = in.nextLine();

System.out.println("Enter student last name: ");

this.lastName = in.nextLine();

System.out.println("1 - Freshmore 2 - Sophmore\3 - Junior\4 - Senior\n Enter student class level: ");

this.gradeYear = in.nextInt();

setStudentID();

System.out.println("sami " + "meshram" + "3" + studentID);

//Id++;

}

//generate id

private void setStudentID() {

Id++;

this.studentID = gradeYear + "" + Id;

//return gradeYear+""+Id;

}

//enroll cource

public void enroll() {

do {

System.out.println("Enter course to enroll (0 to quit):");

Scanner in = new Scanner(System.in);

String course = in.nextLine();

if(course !="Q" ) {

course = course + "\n" + courses;

tutionBalance = tutionBalance + costOfCourses;

}

else {

System.out.println("BREAK!");

break;}

}

while(1 !=0);

System.out.println("ENROLLED IN:" + courses );

System.out.println("TUTION BALANCE:" + tutionBalance);

}

//view balance

public void viewBalance() {

System.out.println("Your balance is: $" + tutionBalance);

}

//pay tution fees

public void payTution(int payment) {

System.out.println("enter your payment");

Scanner in = new Scanner(System.in);

int payment1 = in.nextInt();

tutionBalance = tutionBalance - payment1;

System.out.println("thank you for payment");

viewBalance();

}

//show status

}

**StudentDatabase.java**

package project1;

public class StudentDatabase {

public static void main(String[] args) {

Student stud1 = new Student();

stud1.enroll();

stud1.payTution(500);

// how many new user

}

}

**Output:**

Enter student first name:

Chaitali

Enter student last name:

Wadghule

1 - Freshmore 2 - Sophmore\_ - Junior\_ - Senior

Enter student class level:

1

chaitali wadghule311001

Enter course to enroll (0 to quit):

1

Enter course to enroll (0 to quit):

2

Enter course to enroll (0 to quit):

3

Enter course to enroll (0 to quit):

4

**Collections.java**

import java.util.\*;

import java.util.Scanner;

//import java.utiil.Arrays;

//import java.util.String;

//import java.util.lang;

import java.util.Collections;

class Main

{

int x = 10;

int y = 20;

static void myMethod()

{

System.out.println("Chaitali Wadghule");

}

static void myAddition()

{

int int1 = 2;

int int2 = 4;

System.out.println(int1 + int2);

}

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the String u want");

String a = sc.nextLine();

System.out.println(" "+ a);

/\* ....... Second Operation ........ \*/

System.out.println("Enter the int Number:");

int num1 = sc.nextInt();

System.out.println(" "+num1);

System.out.println("Enter the Float Number:");

float num2 = sc.nextFloat();

System.out.println(" "+ num2);

System.out.println("Enter the boolean Number:");

boolean num3 = sc.nextBoolean();

System.out.println(" "+ num3);

System.out.println("Enter the Double Number:");

double num4 = sc.nextDouble();

System.out.println(" "+ num4);

char var1 = 65; char var2 = 66; char var3 = 67;

System.out.println(var1);

System.out.println(var2);

System.out.println(var3);

//Boolean

boolean isJavaFun = true;

boolean isFishTasty = false;

System.out.println(isJavaFun);

System.out.println(isFishTasty);

/\* ....... Third OPeration ...... \*/

Main obj1 = new Main();

Main obj2 = new Main();

System.out.println(obj1.x);

System.out.println(obj2.y);

/\* ....... Fourth Operation ..... \*/

myMethod();

myAddition();

/\* ....... Fifth Operation LOOPS ...... \*/

int age = 20;

if(age >= 20 )

{

System.out.println("You are eligible for Vote:");

}

else

{

System.out.println("You are not eligible for the Vote:");

}

int a1 = 10;

int a2 = 20;

int a3 = 30;

if(a1> a2 && a1> a3)

{

System.out.println("Largest Number is :-"+ a1);

}

else if(a2 > a3 && a2 > a1)

{

System.out.println("Largest Number is :-"+ a2);

}

else

{

System.out.println("Largest Numbe is :-"+ a3);

}

// While LOOPS

int mynum = 0;

while(mynum < 10)

{

System.out.println(mynum);

mynum++;

}

int mynum1 = 10;

while(mynum1 > 10)

{

System.out.println(mynum1);

mynum1--;

}

/\* Do While Loops

int mynum3 = 0;

do

{

System.out.println(mynum3);

mynum3++;

}

// while(mynum3 < 10)

do

{

System.out.println(mynum3);

mynum--;

}

// while(mynum > 10)

//For Loops

for(int i=0; i<10; i++)

{

System.out.println(i);

}

for(int j=0; j<10; j++)

{

System.out.println(j);

}

\*/

/\*........ String Operation ......\*/

String str = "sdfghjkzxcvbnmwertyui";

String str2 = "mnbvcxzhjkl;piytrew";

System.out.println(" Length of the String is:-"+ str.length());

//Convert into UpperCase & LowerCase

System.out.println(" UpperCase:- "+ str.toUpperCase());

System.out.println(" LowerCase:- "+ str.toLowerCase());

String result = str + str2;

System.out.println(result);

/\* Array Operations \*/

String[] array = {"Pune", "Nashik", "Mumbai", "Chennai"};

System.out.println(" "+ array);

array[2] = "Banglore";

System.out.println(" "+ array[2]);

System.out.println(" "+ array);

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

{

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

}

int n = Integer.parseInt(args[0]);

int m= Integer.parseInt(args[1]);

int number[][]= { { 1,2,3,},

{4,5,6},

{7,8,9}};

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

{

for(int j=0; j<m; j++)

{

System.out.print(" " + number[i][j]);

}

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

}

}

}