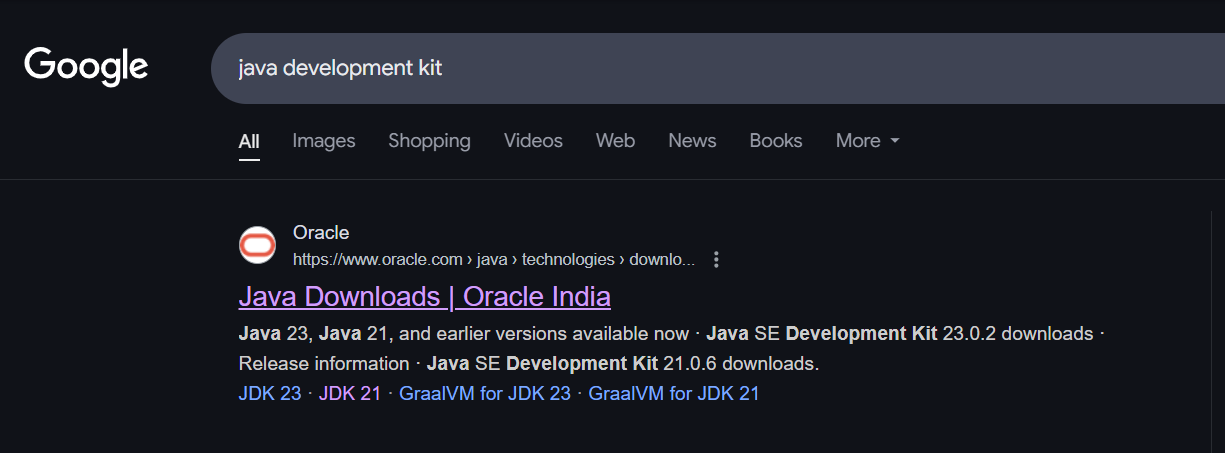
WEEK-1

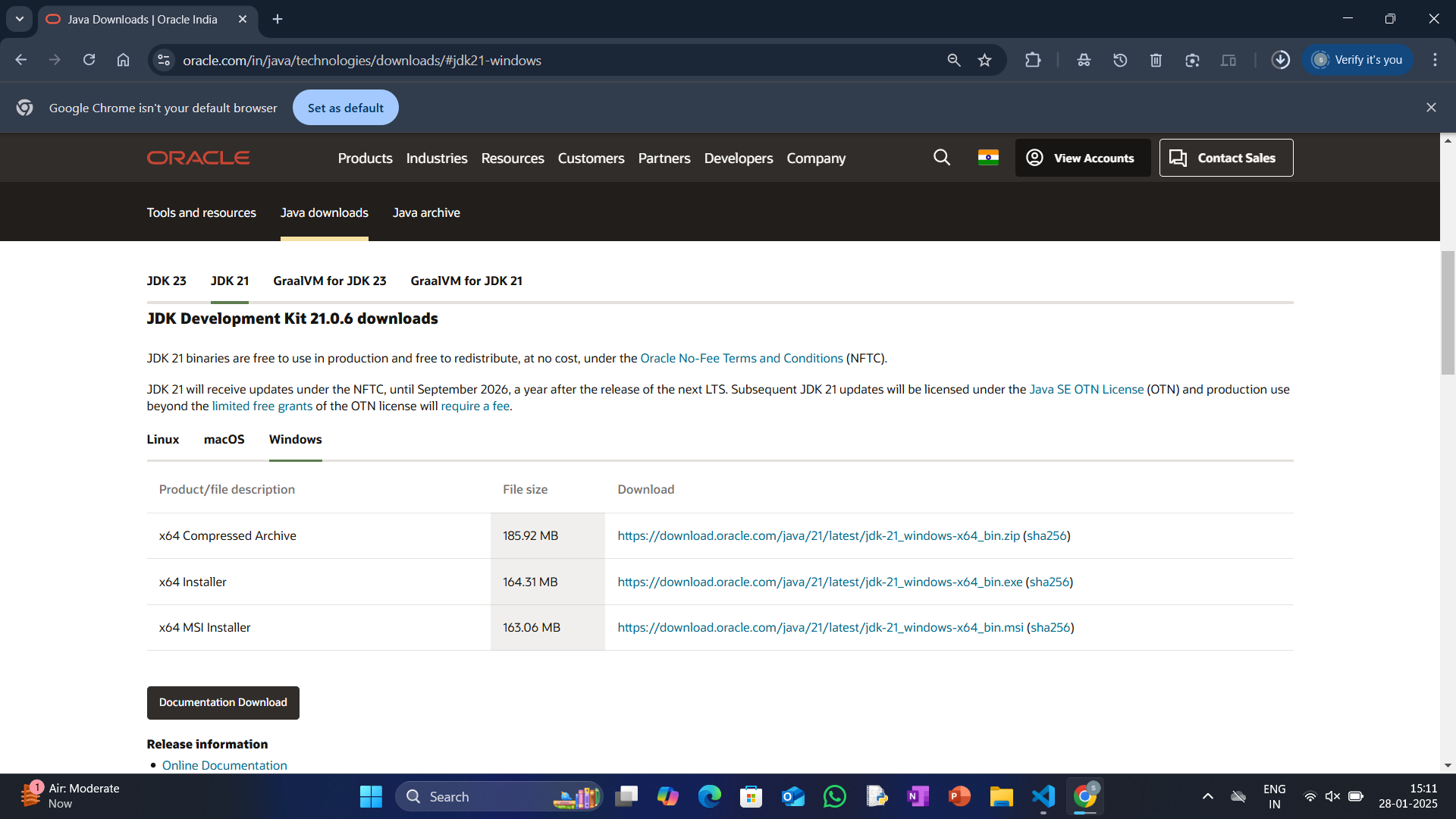
PROGRAME-1

AIM: Download and installation of java

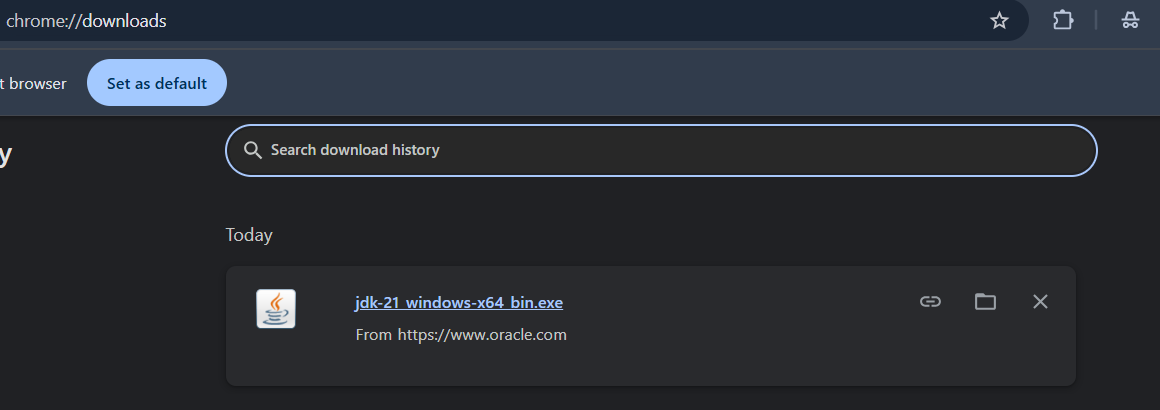
Step 1 : Search for java development kit in chrome to download java



Step 2:Open oracle website. Then select JDK21 and download the type of version for your computer



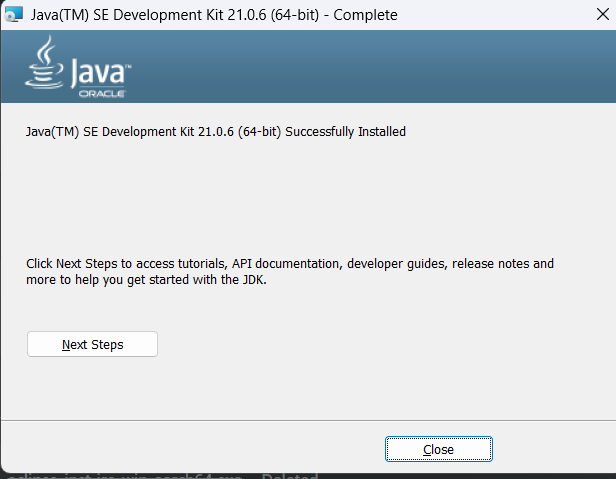
Step 3: after downloading , it will appear like the link below. Click on the link for futher installation of java software.



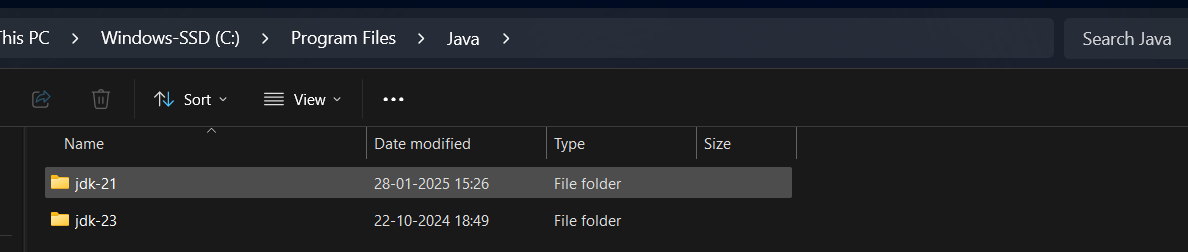
Step 4: click on the next button for futher process of installation of java in computer. At the end section click on next button for final installation.



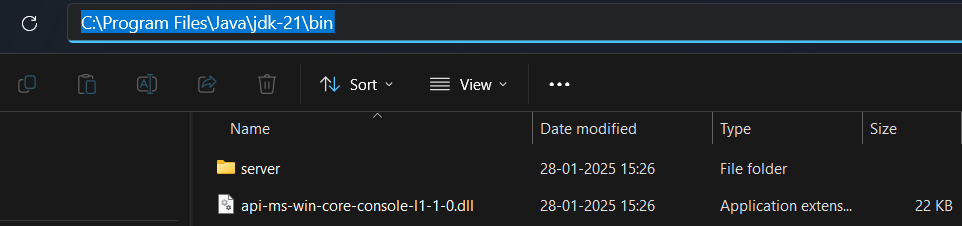
Step 5: at the end section click on the close button to end the installation.



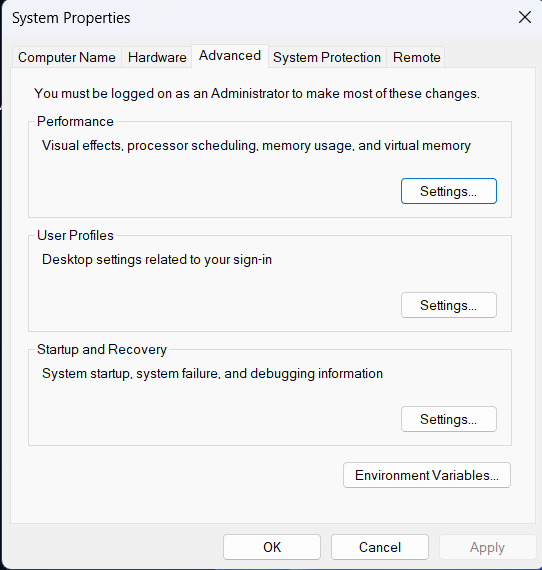
Step6 :to copy the path of the jdk kit in pc go to file manger<< local (c:) <<program files<<java<<jdk 21<<bin .



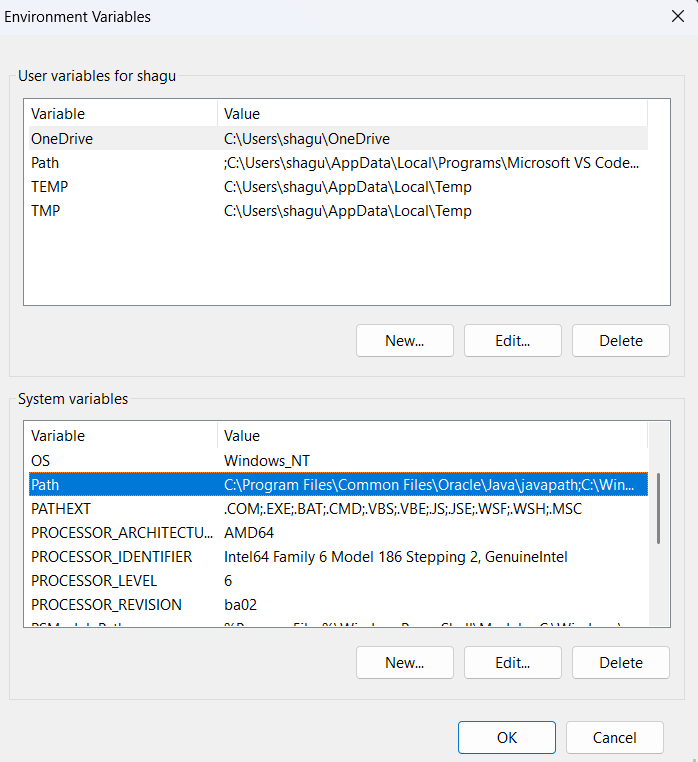
Step 7: copy path on the navigation bar .



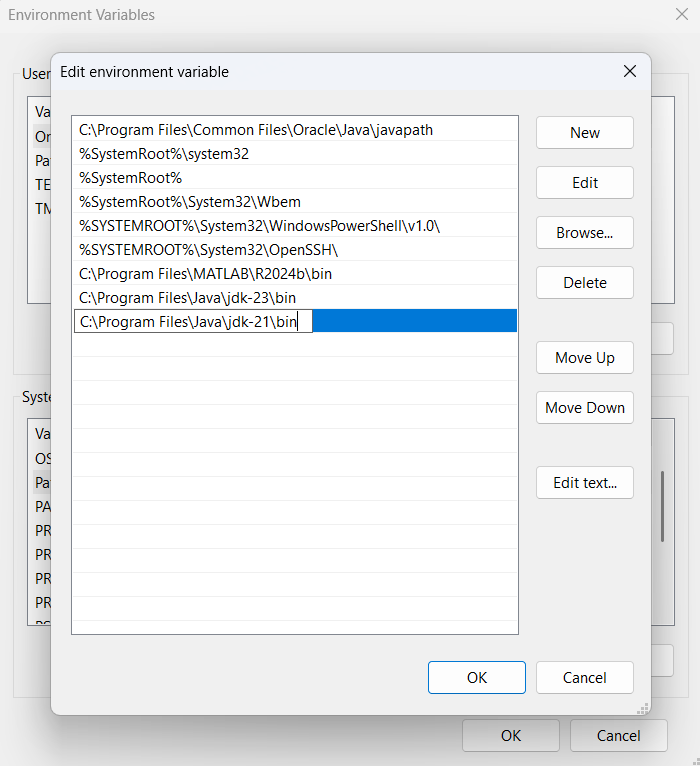
Step 8: now open environmental variables to sset the path in computer.<<click on the environmental variables.



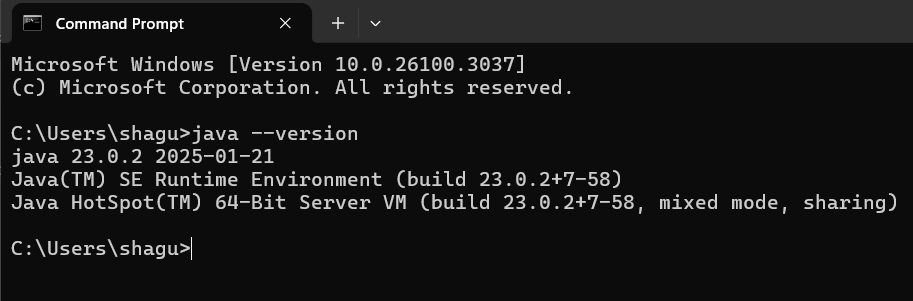
Step 9:after environmental variables another slide will appear of two sections as user variables and system variables<<click on the system variables.<<path<<click on the edit option below .



Step 10:select new << past the path with we have copied on the navigation bar .



Step 11:to check the version installed <<open command prompt<<type java - - version <<enter<<downloaded version will be displayed.



PROGRAM 2:

AIM: To write a java program to print the message

“Welcome programming printing “.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<hello.java

CODE:

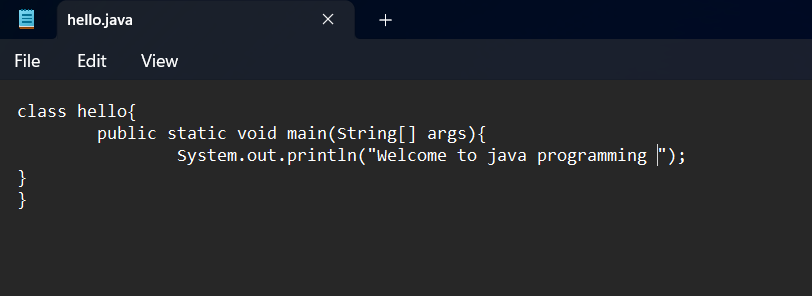
class hello{

public static void main(String [ ] args){

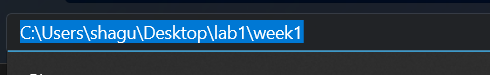
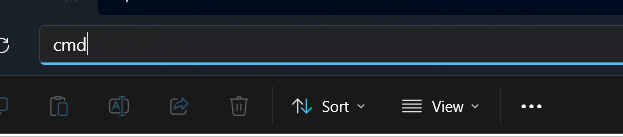
System.out.println(“Welcome to java programming”);

}

}

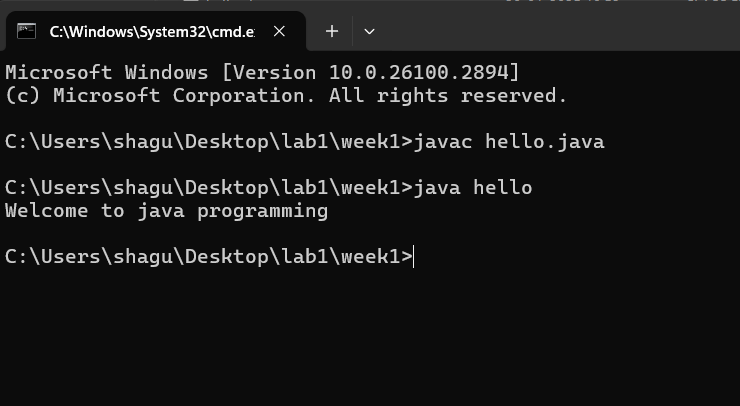


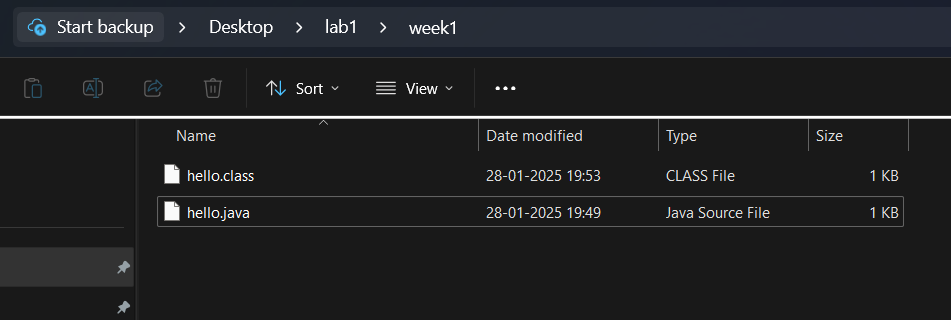
Step 2: to the path clear it and type cmd for running the program.

Step 3:follow commands as: javac hello.java<<enter<<jav hello

The program runs successfully.And creates a java clsss as shown below .





PROGRAME 3:

AIM : To write a java program to print the name,section and roll no .

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<hello.java

CODE:

class hello{

public static void main(String [ ] args){

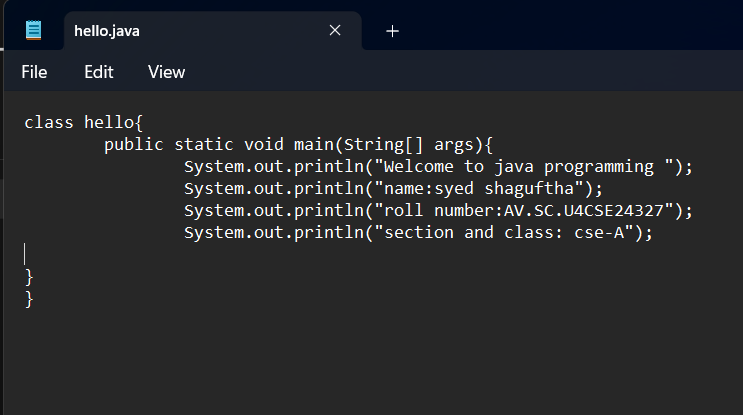
System.out.println(“name : syed ”);

System.out.println(“roll number : AV.SC.U4CSE244444 ”);

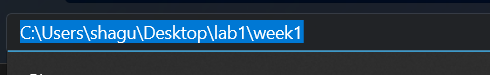
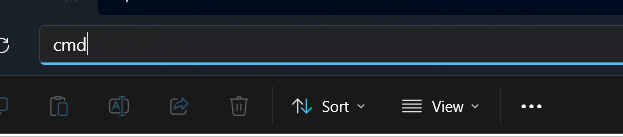
System.out.println(“class and section: CSE -A ”);

}

}

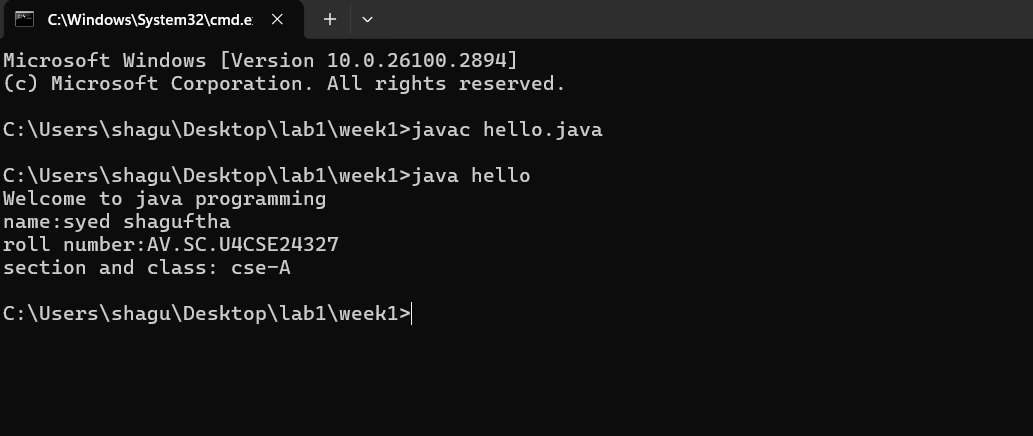


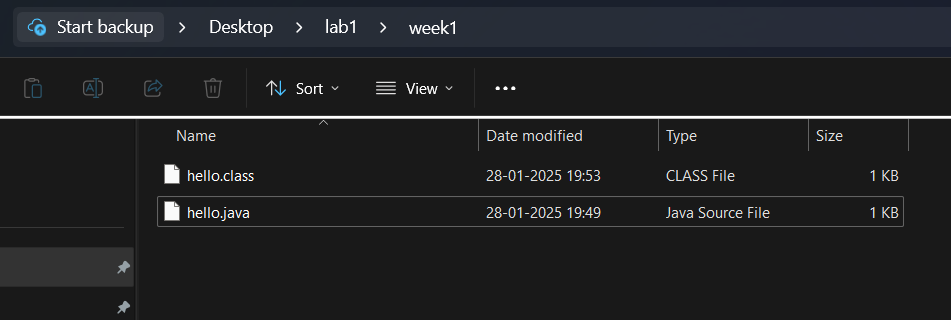
Step 2: to the path clear it and type cmd for running the program.

Step 3:follow commands as: javac hello.java<<enter<<jav hello

The program runs successfully.And creates a java clsss as shown below .





WEEK-2:

PROGRAM 1:

AIM: To write java program to calculate the area of rectangle .

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<exam.java

CODE:

import java.util.Scanner;

class exam{

public static void main(String[] args){

Scanner input= new Scannner(System.in);

System.out.print(“enter the length-l:”);

float l=input.nextFloat();

System.out.print(“enter the length-l:”);

float l=input.nextFloat();

System.out.print(“enter the breadth-b”);

float l=input.nextFloat();

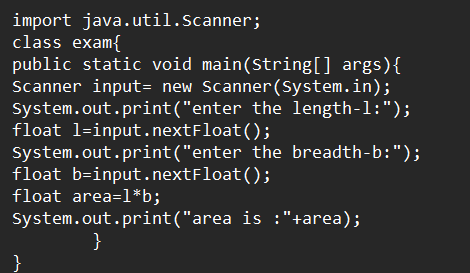
float area=l\*b;

System.out.print(“area is :”+area);

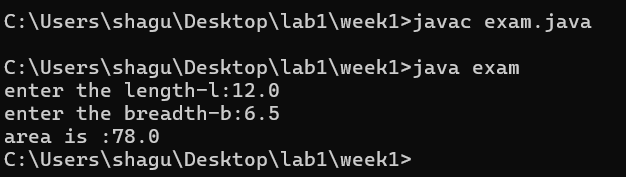
}

}

Step 2:open code in commond prompt and run it.



Step 3:enter the commands as javac exam.java <<java exam.the program is excuted successfully.



Step 4:after runner the program system automatically creates a class for it .

ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MEASSAGE | ERROR RECTIFICATION |
| 1. | Error:”;”expected | Inserted “;”in line7 |
| 2. | Error:”?”unkown sysmbol | Replaced”?”with “:” |

IMPORTANT POINTS:

1. used Scanner library to get input from user in run time .

2. ”import java.util.Scanner;”-step to import library.

3. “Scanner input=new Scanner(System.in);”-step to use the scanner .

PROGRAM-2:

1. AIM: To write java program to convert temperature from celcius to farenheit and vice via.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<exam.java

CODE:

//code for celciius to farenheit

import java.util.Scanner;

class exam{

public static void main(String[ ] args){

Scanner input=new Scanner(System.in);

System.out.print(“Enter the celcius :”);

float c:input.nextFloat();

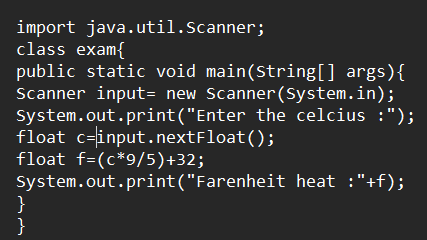
float f=(c\*9/5)+32;

System.out.print(“Farenheit heat :”+f);

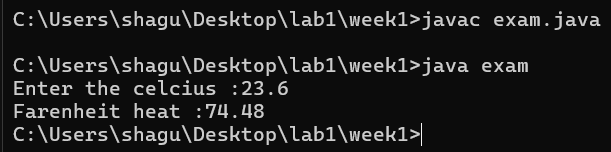
}

}

Step 2:open in commond prompt and run it.



Step 3: enter the commands as javac exam <<java exam the program is excuted successfully.



Step 4:After runner the program system automatically creates a class of it.

ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
| 1. | Error :”:” unknow symbol | Replace”:” with”=” |
| 2. | Error: “scanner”small letter case censitive | “Scanner” |

IMPORTANT POINTS:

1.used Scanner library to get input from user in run time.

2.”import java.util.Scanner;”-step to import library.

3.”Scanner input= new Scanner(System.in);”-step to use the scanner.

1. AIM: AIM: To write java program to convert temperature from farenheit to celceius.

CODE:

//code for farenheit to celciius

import java.util.Scanner;

class exam{

public static void main(String[ ] args){

Scanner input=new Scanner(System.in);

System.out.print(“Enter the farenheit :”);

float f:input.nextFloat();

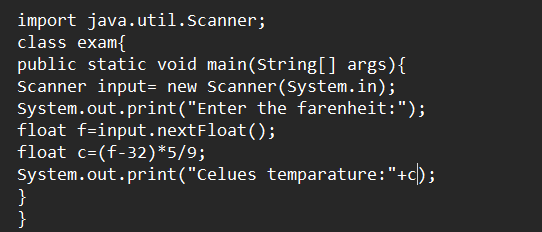
float c=(f-32)\*5/9;

System.out.print(“celcius temparature :”+c);

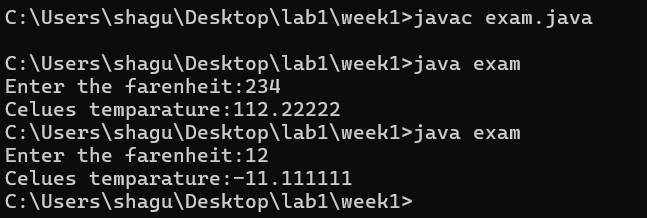
}

}

Step 2:open in commond prompt and run it.



Step 3: enter the commands as javac exam <<java exam the program is excuted successfully.



Step 4:After runner the program system automatically creates a class of it.

ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
| 1. | Error :”oout” unknow keywoard | Replace”oout” with”out” |
| 2. | Error: “scanner”small letter case censitive | “Scanner” |

IMPORTANT POINTS:

1.used Scanner library to get input from user in run time.

2.”import java.util.Scanner;”-step to import library.

3.”Scanner input= new Scanner(System.in);”-step to use the scanner.

1. AIM: To write java program to calculate the simple

CODE:

Import java.util.Scanner;

class exam{

public static void main(String[ ] args){

Scanner input=new Scanner(System.in);

System.out.print(“enter the principle value(p):”);

float p=input.nextFloat();

System.out.print(“enter the rate of interest value(r):”);

float r=input.nextFloat();

System.out.print(“enter the time period value(t):”);

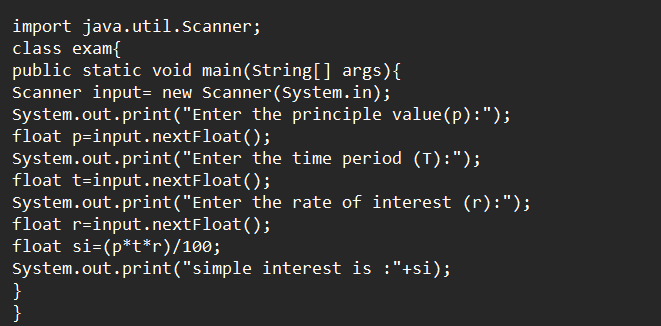
float t=input.nextFloat();

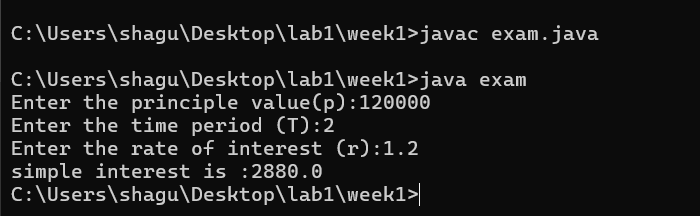
float si=(p\*t\*r)/100;

System.out.println(“simple interest is:”+si);

}

}





ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
| 1. | Error :”T” is not declred | Replace:”T” with”t” |
| 2. | Error : expected’;’ in line 8 | Insert ‘;’ in line 8 end |

IMPORTANT POINTS:

1.java is a case sensitive language so “apple” is different from “APPLE”,so clear declaration of variables is important..

1. AIM: To write a program to find the largest of three numbers using ternary operators.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<exam.java

CODE:

import java.util.Scanner;

class exam{

public static void main(String [ ] args){

Scanner input=new Scanner(System.in);

System.out.print(“enter n1:”);

int n1=input.nextInt();

System.out.print(“enter n2:”);

int n2=input.nextInt();

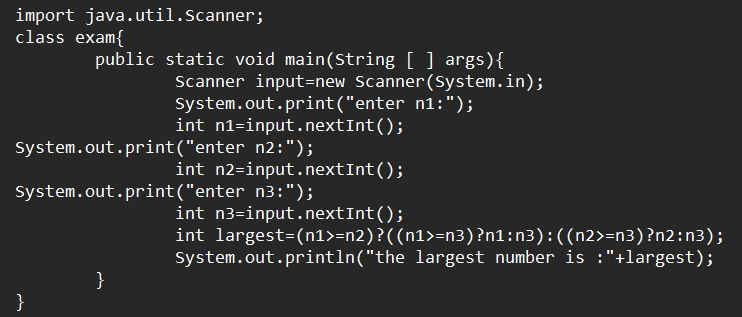
System.out.print(“enter n3:”);

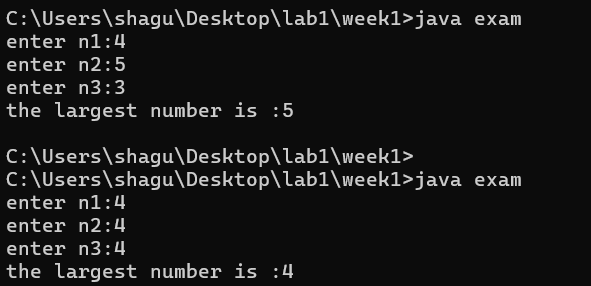
int n3=input.nextInt();

int largest=(n1>=n2)?((n1>=n3)?n1:n3):((n2>=n3)?n2:n3);

System.out.println(“the lsrgest number is :”+lsrgest);

}

}



ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
|  | Error :”;” expected in line 6 | Insert”;” in end of line 6 |
|  | Error :”nextint();” non identified | Replace”next.Int();” |

IMPORTANT POINTS:

1. Ternary operators: a shorthand for the if-else statement, used to execute condition-based operations in a single line.
2. It evaluates a Boolean condition and returns trueValue if the condition is true, otherwise it returns falseValue.
3. AIM: To write a program for the factorial of the numbers.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<exam.java

CODE:

import java.util.Scanner;

class exam{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.println("fibinocci series");

System.out.println("enter a number:");

int n =input.nextInt();

int f1=0,f2=1;<br>

System.out.println(" "+f1);

System.out.println(" "+f2);

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

int f3=f1+f2;

System.out.println(" "+f3);

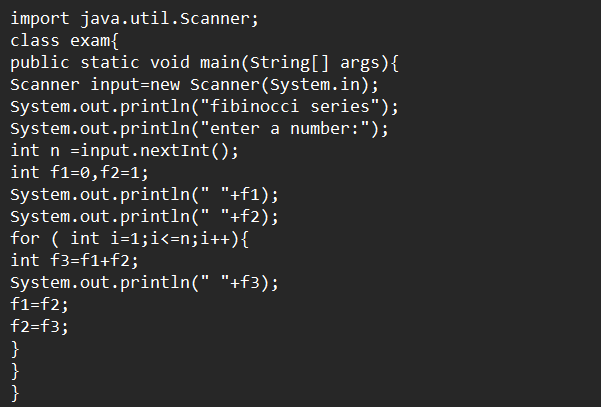
f1=f2;

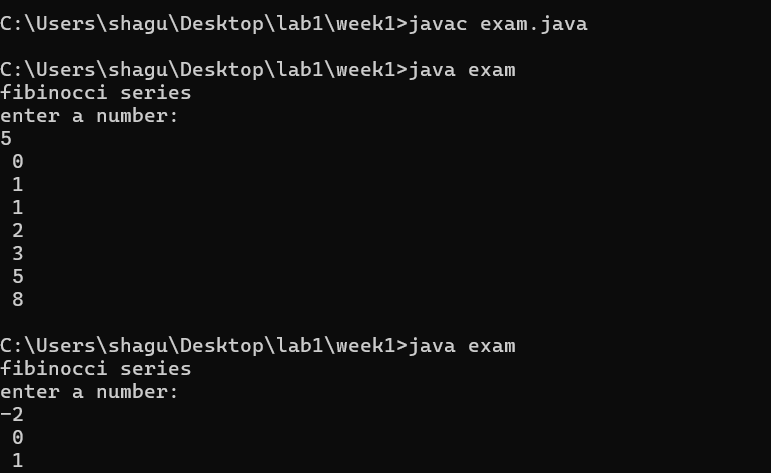
f2=f3;

}

}

}





ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
|  | Error: line-9 illegal start of expression | Rebuilt of the line -9 |
|  | Error :iteration error | Correct iteration inserted |

IMPORTANT POINTS:

1.Java for loop is a control flow statement that allows code to be executed repeatedly based on a given condition.

2.The for loop in java provides an efficient way to iterate over a range of values ,execute code multiple times,or traverse arrays and collections.

WEEK-3

PROGRAME-1

AIM: To write a program for car color and all respective complextions using constructor and method.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<car.java

CODE:

class car{

//creating the attributes requires for the classs

String car\_name,car\_color,car\_brand,fule\_type;

int maleage;

//constructor

car(String car\_name,String car\_color,String car\_brand,String fule\_type,int maleage){

this.car\_name=car\_name;

this.car\_color=car\_color;

this.car\_brand=car\_brand;

this.fule\_type=fule\_type;

this.maleage=maleage;

}

//creating the methods forte class

public void start(){

System.out.println("this is start statement: "+car\_name+" "+car\_color);

}

public void stop(){

System.out.println("this is start statement: "+car\_brand+" "+fule\_type);

}

public void services(){

System.out.println("this is start statement: "+maleage);

}

public static void main(String[] args){

//creating the object for the class

car car1=new car("maruthi","navy blue","KIA","petrol", 1234);

car1.start();

car car2=new car("maruthi","navy blue","KIA","petrol", 1234);

car2.stop();

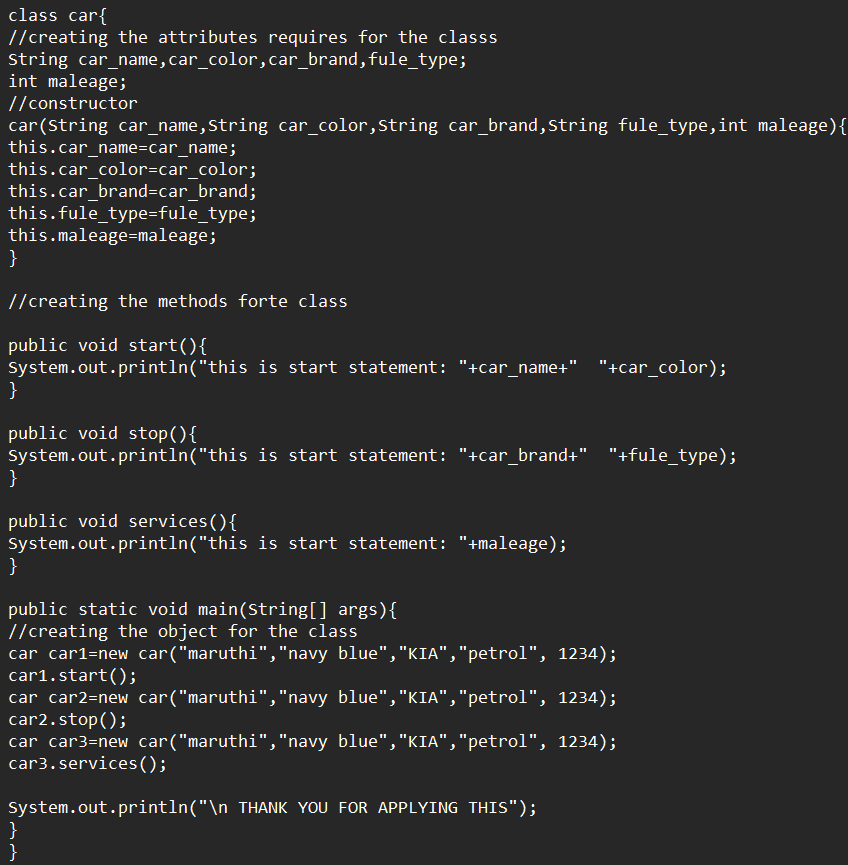
car car3=new car("maruthi","navy blue","KIA","petrol", 1234);

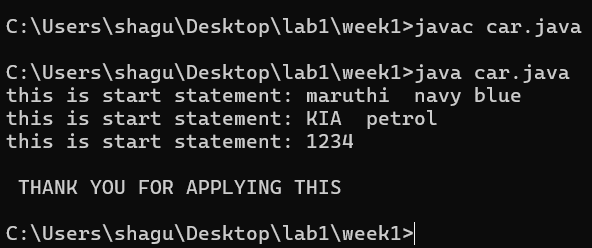
car3.services();

System.out.println("\n THANK YOU FOR APPLYING THIS");

}

}





ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
|  | Error: line7 expected ‘; | Inserted ‘;’ |
|  | Error :line 7 unknow’\_\_’ | Removed ‘\_’ |
|  | Error : correct data type declararion in constructor | Rectified by declaring the data type as String and int. |

IMPORTANT POINTS:

1. Java constructor is used to save the variables present in different or same class or methods.

2. In Java, the this keyword refers to the current instance of a class. It is commonly used to distinguish between instance variables and parameters with the same name, or to refer to the current object from within a method or constructor.

3. In Java, a method is a block of code that performs a specific task and can be invoked to execute that task. It typically consists of a method signature (name, return type, and parameters) and the body of the method, which contains the logic.

AIM: To write a program for car color and all respective complextions using constructor and method.

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<BANK.java

CODE:

import java.util.Scanner;

class BankAccount {

 // Class-level variable to store balance

    private float existing;

    private Scanner input; // Single Scanner instance for input

    public  String name;

    // Constructor

    public BankAccount() {

        input = new Scanner(System.in);

        System.out.println("Enter the account holder name :");

        this.name=input.next();

        System.out.print("Enter existing amount in bank account: ");

        this.existing = input.nextFloat();

    }

    // Deposit method

    public void deposit() {

        System.out.print("Enter amount to be deposited: ");

        float deposit = input.nextFloat();

        existing += deposit;

        System.out.println("Existing amount now is: " + existing);

    }

    // Withdrawal method

    public void withdrawal() {

        System.out.print("Enter amount to be withdrawn: ");

        float withdrawal = input.nextFloat();

        if (existing < withdrawal) {

            System.out.println("Not sufficient balance.");

        } else {

            existing -= withdrawal;

            System.out.println("Remaining balance: " + existing);

        }

    }

    // Main method

    public static void main(String[] args) {

        BankAccount customer1 = new BankAccount();

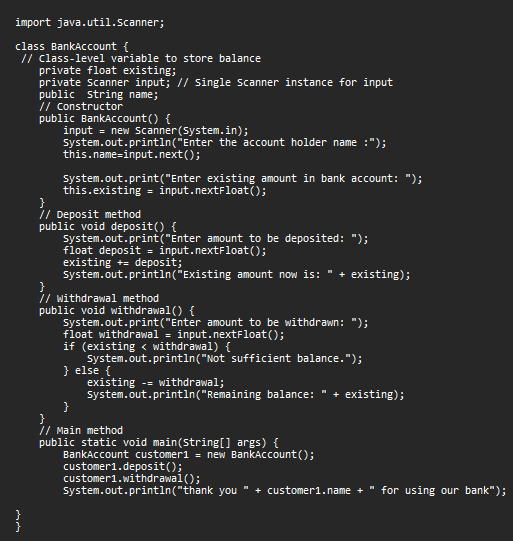
        customer1.deposit();

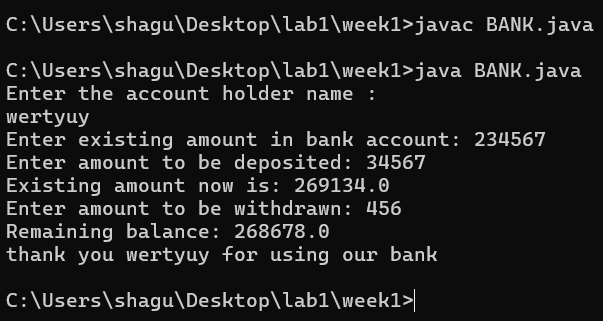
        customer1.withdrawal();

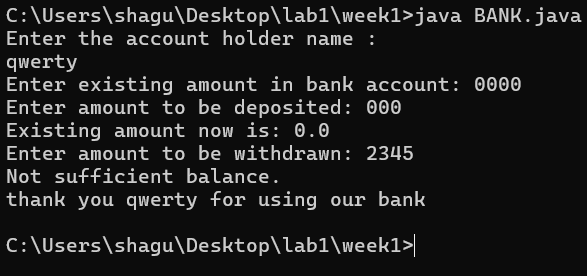
        System.out.println("thank you " + customer1.name + " for using our bank");

}

}







ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
|  | Error: nextString(); wrong identifier | Rectification: next(); |
|  | Error :line 7 unknow’\_\_’ | Removed ‘\_’ |
|  | Error : if statement ‘{}’ expected | Inserted ‘{}’ |

IMPORTANT POINTS:

1. Java constructor is used to save the variables present in different or same class or methods.

2. In Java, the this keyword refers to the current instance of a class. It is commonly used to distinguish between instance variables and parameters with the same name, or to refer to the current object from within a method or constructor.

3. In Java, a method is a block of code that performs a specific task and can be invoked to execute that task. It typically consists of a method signature (name, return type, and parameters) and the body of the method, which contains the logic.

WEEK-4

PROGRAME-1

AIM: To write a program for printing the title of the book and the author and year of publication using the constructors

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<person.java

CODE:

class book{

//creating the variable

public String title\_of\_book;

public String author;

public int year\_publication;

//creating a constructor

book(String title\_of\_book,String author,int year\_publication){

this.title\_of\_book=title\_of\_book;

this.author=author;

this.year\_publication=year\_publication;

}

//creating the method to print DETAILS

public void details(){

System.out.println("the title of the book is: "+title\_of\_book+"\nThe author of te book is: "+author+"\nthe year of publication is:"+year\_publication+"\n");

}

//creating the main class and objects for the method

public static void main(String[] args){

book one=new book("THE GREAT INDIAN RIVERS","DR.SHIVARAM",1989);

one.details();

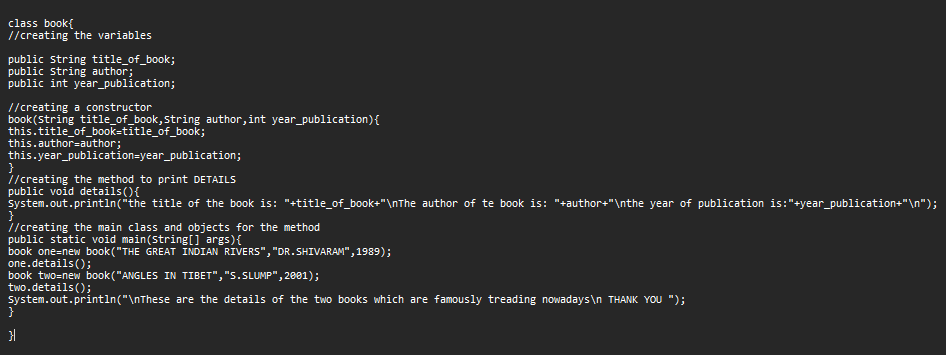
book two=new book("ANGLES IN TIBET","S.SLUMP",2001);

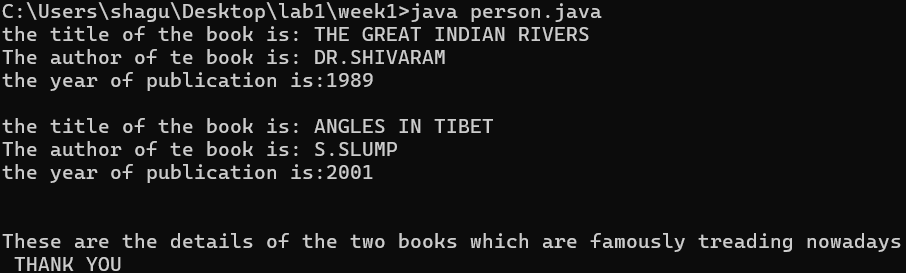
two.details();

System.out.println("\nThese are the details of the two books which are famously treading nowadays\n THANK YOU ");

}

}





ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
| 1. | Error: “ this.year\_public;=year\_public;” | Rectification: removed the ‘;’ |
| 2. | Error :”missing ‘;’-“System.out.println(“..”); | Inserted the ‘;’ in the line. |

IMPORTANT POINTS:

1. Java constructor is used to save the variables present in different or same class or methods.
2. In Java, the this keyword refers to the current instance of a class. It is commonly used to distinguish between instance variables and parameters with the same name, or to refer to the current object from within a method or constructor.

PROGRAME-2

AIM: To write a program for printing the title of the book and the author and year of publication using the constructors

Step 1:open notepad<<save the note pad in the path[desktop<<oops<<week 1<<exam.java

CODE:

class myclass{

//creating the variables

static int count=0;

final double pi=3.1415;

//creating a constructor

myclass(){

count++;// creatinfg the condition for the increment of the static count variable

}

//method to print the values

public void values(){

System.out.println(+count);

System.out.println(+pi);

}

//object and the main function

public static void main(String[] args){

//creating the four objects to check the code for the condition of constructor

myclass one=new myclass();

one.values();

myclass two=new myclass();

two.values();

myclass three=new myclass();

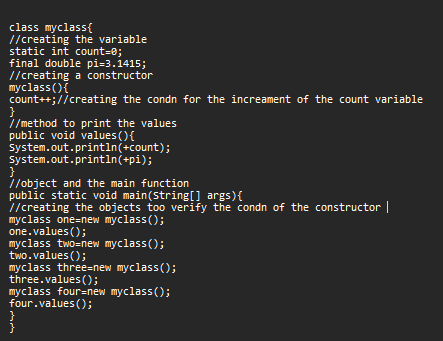
three.values();

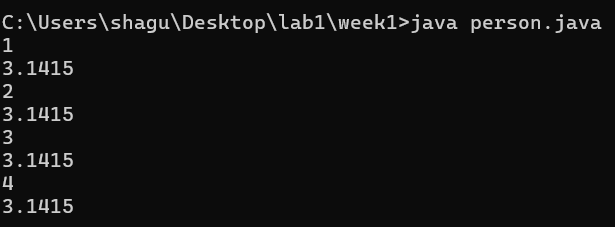
myclass four=new myclass();

four.values();

}

}





ERRORS:

|  |  |  |
| --- | --- | --- |
| S.NO | ERROR MESSAGE | ERROR RECTIFICATION |
|  | Error: argument required of type int | Rectification: rectified the argument issue. |
|  | Error :line 7 unknow’\_\_’ | Removed ‘\_’ |
|  | Error : if statement ‘;’ expected | Inserted:count++; |

IMPORTANT POINTS:

1. Java constructor is used to save the variables present in different or same class or methods.
2. In Java, the ++ operator increments a variable by 1, either as **pre-increment** (++x) or **post-increment** (x++).
3. In Java:
4. **static**: A static variable belongs to the class, not instances, meaning all objects share the same value.
5. **final**: A final variable cannot be modified once assigned, making it constant.