**Assignment**

class Test {

    static int i;

    int j;

}

class Main {

    public static void main(String args[]) {

        i = 0;

        System.out.println(Test.i);

    }

}

What will be the output of the above program. And new code to the same Test class which prints a message “I am executed first”.But the new code you are adding **should be present outside of the main** method.

1. Create a class named Primegenerator and write a method named PrimeGen(int a, int b) which takes two input parameters. This method should be able to calculate prime numbers between numbers a and b.**Note:** The program should prompt the user to enter the two numbers from the keyboard using scanner class.
2. Write a java program which does the following operation

Consider the staircase as below of size n =4.Note that the below staircase have the same height and width which are equal to 4.

#

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Now write the java code which takes size of staircase from the keyboard using scanner class and store the value in variable **named** “n”.The program should print a staircase of size n using ‘#’ symbols.

Sample input:

6

Sample output:

#

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1. Create an **abstract** class named Banking, which has instance variables balance, interest. The class should have two concrete methods Deposit(double amount) which implements deposit operation and Withdraw(double amount) which implements withdrawal operation. Now define an **abstract** method named CalculateInterest(double amount) in the same class.

Now create another class named SavingsBank which inherits the Banking class. . Implement the abstract method ‘CalculateInterest(double amount)’ in this class which calculates the interest(10%) by using formula. Interest = 0.1 \* amount;

Now from the main method of this class call Deposit and Withdrawal methods of parent class by passing the amount and display the balance after the Deposit and Withdrawal operation respectively to the output windows. Also call the CalculateInterest method of child class which takes double parameter to calculate interest and show to the output windows.

1. Write a java program that prompts user to input a name from the keyboard using Scanner class and it should display message “Hi <> name “.It should keep on prompting the user to enter the name and display the same message until user enters the word “End”. When user enters the word “End”, the program should terminate by displaying a message “Finished”.

Sample input/output:

Enter a name:

Arjun

Enter a name:

Raju

Enter a name:

Lokesh

Enter a name:

End

Finished.