**Answer to the question no – 02**

**Input: Using for loop**

package fibonacci;

import java.util.Scanner;

public class Fibonacci {

public static void main(String[] args){

Scanner input = new Scanner(System.in);

System.out.print("How many numbers: ");

int n = input.nextInt();

int first = 0;

int second = 1;

int fib;

System.out.print(first+" " +second);

for (int i = 3; i<=n; i++){

fib = first + second;

System.out.print(" "+fib );

first = second;

second = fib;

}

}

}

**Output: using for**

Text

Description automatically generated

**Input: using do while loop**

package fibonacci;

import java.util.Scanner;

public class Fibonacci {

public static void main(String[] args){

Scanner input = new Scanner(System.in);

System.out.print("HOw many numbers: ");

int n = input.nextInt();

int first = 0;

int second = 1;

int fib;

System.out.print(first+" " +second);

int i = 3;

do {

fib = first + second;

System.out.print(" "+fib );

first = second;

second = fib;

i++;

}while (i<=n);

}

}

**Output: using do while**

Graphical user interface, text, website

Description automatically generated

**Answer to the question no – 01**

**Input:**

package cgpa;

import java.util.Scanner;

class Section

{

int n;

double p,count=0,gpa;

void calc()

{

System.out.println("Enter the number of Student ");

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

System.out.println("Enter the GPA");

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

{

Scanner gp=new Scanner(System.in);

p=gp.nextInt();

count=count+i;

gpa=(count/n);

System.out.println("Average GPA: "+gpa);

}

System.out.println("Average GPA: "+gpa);

}

}

public class CGPA {

public static void main(String[] args) {

int n,m,i;

System.out.println("Enter The Number of Section: ");

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

System.out.println("Enter The Sections: ");

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

{

System.out.println("Enter The Number of Section: ");

Scanner mc=new Scanner(System.in);

m=mc.nextInt();

}

Section objec = new Section();

objec.calc();

}

}

**Answer to the question no – 03**

**Input:**

package pkginterface;

interface Bus {

// int length, weight,price;

public void accelaration(int length, int weight, int price);

public void brake(int length, int weight, int price);

}

interface Car {

// int length, weight,price;

public void accelaration(int length, int weight, int price);

public void brake(int length, int weight, int price);

}

interface Truck {

public void accelaration(int length, int weight, int price);

public void brake(int length, int weight, int price);

}

class vehicles implements Bus, Car, Truck{

public void accelaration(){

System.out.println(" ");

}

public void brake(){

System.out.println(" ");

}

}

public static void main(String[] args) {

vehicles obj = new vehicles();

obj.accelaration();

obj.brake();

}