1)

import java.util.Scanner;

public class Assign4\_1 {

static int cal\_increment(int sal,float rating) {

int inc=0;

if(rating >=1 && rating <= 4) {

inc=10;

}

else if(rating >= 4.1 && rating <=7) {

inc=25;

}

else {

inc=30;

}

int inc\_sal=sal+(sal\*inc/100);

return inc\_sal;

}

public static void main(String args[]) {

Scanner s=new Scanner(System.in);

System.out.println("Enter the salary: ");

int sal=s.nextInt();

System.out.println("Enter the Performance appraisal rating: ");

float rating= s.nextFloat();

if(rating<1 || rating>10 || sal<0) {

System.out.println("Invalid Input");

}else {

System.out.println(cal\_increment(sal,rating));

}

}

}

2)

package Assignment4;

import java.util.Scanner;

public class Assignment4question2 {

static void cal\_high\_place(int cs,int ec,int me) {

if(cs<0 || ec<0 || me<0) {

System.out.println("Input is invalid");

}

else if(cs==ec && ec==me) {

System.out.println("None of the department has got the highest placement");

}

else {

System.out.println("Highest placement");

int maxx=0;

if(cs>ec && cs>me) {maxx=cs;}

else if(ec>cs && ec>me) {maxx=ec;}

else {maxx=me;}

if(maxx==cs) {System.out.println("CS");}

if(maxx==ec) {System.out.println("EC");}

if(maxx==me) {System.out.println("ME");}

}

}

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

System.out.println("Enter the no of students in CS:");

int cs=s.nextInt();

System.out.println("Enter the no od students in EC:");

int ec=s.nextInt();

System.out.println("Enter the no of students in ME:");

int me=s.nextInt();

cal\_high\_place(cs,ec,me);

}

}

3)

package Assignment4;

import java.util.Scanner;

public class Assignment4question3 {

static void prime(int low,int high) {

if(low>=high) {

System.out.println("Provide valid input");

}

else {

if(low==1) {low++;}

for(int i=low;i<=high;i++) {

int count=0;

for(int j=2;j<=i/2;j++) {

if(i%j==0) {count++;}

}

if(count==0) {System.out.print(i+" ");}

}

}

}

public static void main(String args[]) {

Scanner s=new Scanner(System.in);

int low=s.nextInt();

int high=s.nextInt();

prime(low,high);

}

}

4)

package Assignment4;

import java.util.Scanner;

import java.lang.Math;

public class Assignment4question4 {

static void sum(int low,int high) {

int even=0,odd=0,abs=0;

for(int i=low;i<=high;i++) {

if(i%2==0) {even=even+i;}

else {odd=odd+i;}

}

abs=Math.abs(even-odd);

System.out.println("The Sum of odd numbers from "+low+" to "+high+" is:"+odd);

System.out.println("The Sum of even numbers from "+low+" to "+high+" is:"+even);

System.out.println("The absolute difference between the two sums is: "+abs);

}

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s = new Scanner(System.in);

int low=s.nextInt();

int high=s.nextInt();

sum(low,high);

}

}