```
package demo;

import java.util.Scanner;

public class Assignment4question1 {

    static int cal_increment(int salary, float
rating) {
        int inc = 0;
        int inc_salary = 0;
        if(rating>=1||rating<=4) {
            inc=10;

        }
        else if(rating>=4.1||rating<=7) {
            inc=25;

        }
        else {
            inc=30;

        }
```

```
        inc_salary =salary+(salary*inc/100);
        return inc_salary ;

    }

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the salary: ");
        int salary=s.nextInt();
        System.out.println("Enter the
Performance appraisal rating: ");
        float rating= s.nextFloat();
        if(rating<1 || rating>10 || salary<0) {
            System.out.println("Invalid Input");
        }else {

System.out.println(cal_increment(salary,ratin
g));



    }
```

```
    }
}
```

```
package demo;

import java.util.Scanner;

public class Assignment4question2 {

    static int placed_student(int cs, int ec, int
me) {
        if(cs>ec && cs>me) {
            System.out.println("Highest
placement in cs");
        }
        else if(cs<ec && ec>me) {
            System.out.println("Highest
```

```
placement in ec");
        }
        else if(me>ec && cs<me) {
            System.out.println("Highest
placement in me");
        }
        else if(cs==ec && ec>me) {
            System.out.println("Highest
placement in cs and ec");
        }
        else if(cs>ec && cs==me) {
            System.out.println("Highest
placement in cs and me");
        }
        else if(me==ec && cs<me) {
            System.out.println("Highest
placement in ec and me");
        }
        else {
            System.out.println("None of the
department has got the highest placement");
        }
```

```
        return 0;

    }

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number of
students placed in CS: ");
        int cs=sc.nextInt();
        System.out.print("Enter the number of
students placed in EC: ");
        int ec=sc.nextInt();
        System.out.print("Enter the number of
students placed in ME: ");
        int me=sc.nextInt();
        if(cs>=0 && ec>=0 && me>=0) {
            placed_student(cs,ec,me);
        }
        else {
            System.out.println("Invalid Input ");
        }
```

```
    }

}
```

```
package demo;

import java.util.Scanner;

public class Assignment4question4 {

        static void sum(int x, int y) {
            int even=0,odd=0,abs=0;
            for(int i=x;i<=y;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 "+x+" to "+y+" is:"+odd);
            System.out.println("The Sum of even
numbers from "+x+" to "+y+" is:"+even);
            System.out.println("The absolute
difference between the two sums is: "+abs);
        }
        public static void main(String[] args) {

            Scanner s = new Scanner(System.in);
            int x=s.nextInt();
            int y=s.nextInt();
            sum(x,y);
        }




}
```

```
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_____
_____

package demo;

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 ob=new Scanner(System.in);
    System.out.println("Enter the low :");
    int low=ob.nextInt();
    System.out.println("Enter the high :");
    int high=ob.nextInt();
    prime(low,high);

}

}
```