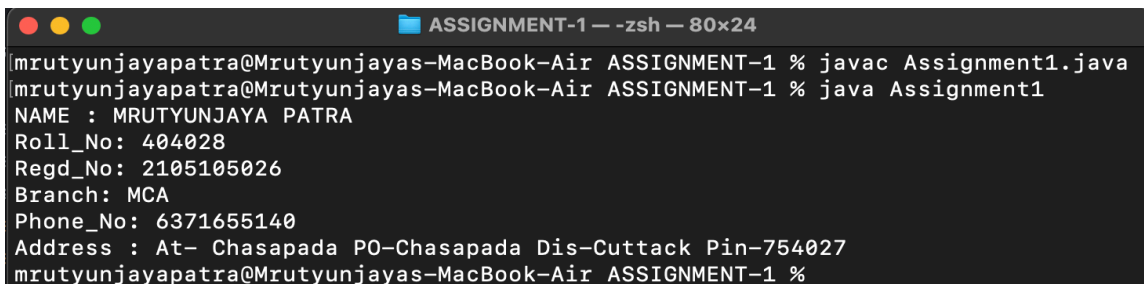


ASSIGNMENT-1

1. Write a java program to print your biodata?

```
public class Assignment1{
    public static void main(String[] args) {
        System.out.println("NAME : MRUTYUNJAYA PATRA");
        System.out.println("Roll_No"+" : 404028");
        System.out.println("Regd_No"+" : 2105105026");
        System.out.println("Branch"+" : MCA");
        System.out.println("Phone_No"+" : 6371655140");
        System.out.println("Address"+" : At- Chasapada PO-
Chasapada Dis-Cuttack Pin-754027");
    }
}
```

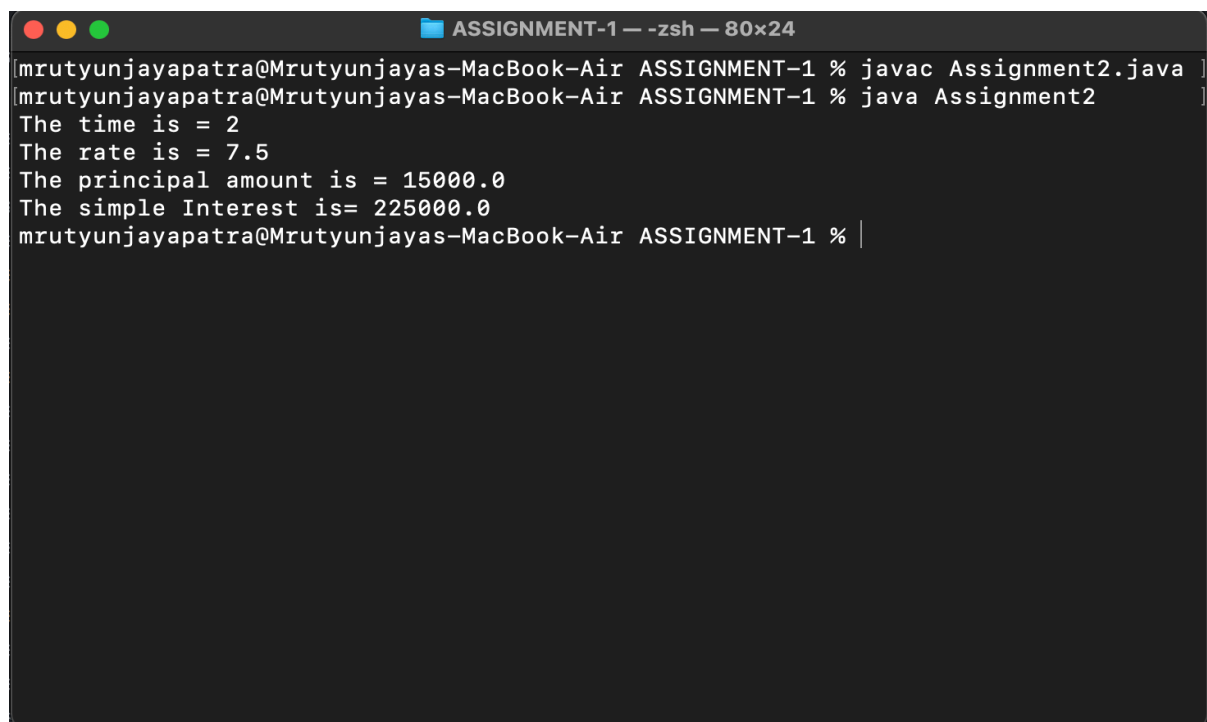
A terminal window titled "ASSIGNMENT-1 - zsh - 80x24" on a MacBook-Air. The user runs the command "javac Assignment1.java" and then "java Assignment1". The output displays the biodata information as defined in the code: NAME, Roll_No, Regd_No, Branch, Phone_No, and Address.

```
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment1.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment1
NAME : MRUTYUNJAYA PATRA
Roll_No: 404028
Regd_No: 2105105026
Branch: MCA
Phone_No: 6371655140
Address : At- Chasapada PO-Chasapada Dis-Cuttack Pin-754027
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

2. Write a java program to find simple interest?

```
import java.util.Scanner;

public class Assignment2 {
    public static void main(String[] args) {
        double amount=15000.00;
        int time =2;
        float rate=7.5f;
        double SI=0;
        System.out.println("The time is = "+time);
        System.out.println("The rate is = "+rate);
        System.out.println("The principal amount is = "+amount);
        SI=amount*rate*time;
        System.out.println("The simple Interest is= "+ SI);
    }
}
```

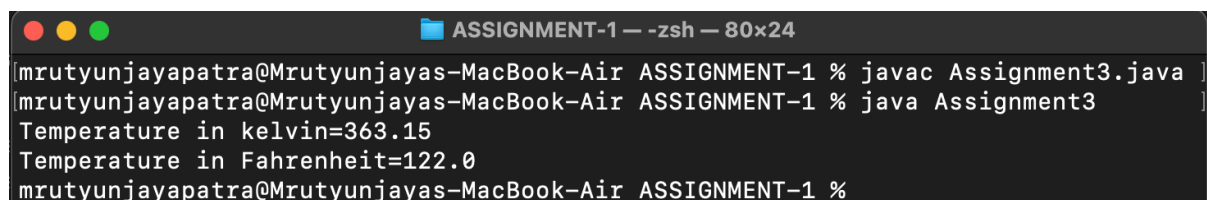


A terminal window titled "ASSIGNMENT-1 — zsh — 80x24" on a MacBook-Air. The user, mrutyunjayapatra, has compiled and run the Assignment2.java file. The output shows the time as 2, the rate as 7.5, the principal amount as 15000.0, and the simple interest as 225000.0.

```
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment2.java ]
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment2 ]
The time is = 2
The rate is = 7.5
The principal amount is = 15000.0
The simple Interest is= 225000.0
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % |
```

3. Write a java program for temperature conversion?

```
public class Assignment3 {  
  
    public static void main(String[] args) {  
        float celsius = 90;  
        double temp_in_kelvin = 0;  
        double temp_in_fahrenheit = 0;  
        temp_in_kelvin = celsius + 273.15;  
        temp_in_fahrenheit = celsius * (9 / 5) + 32;  
  
        System.out.println("Temperature in kelvin=" +  
temp_in_kelvin);  
        System.out.println("Temperature in Fahrenheit=" +  
temp_in_fahrenheit);  
  
    }  
  
}
```

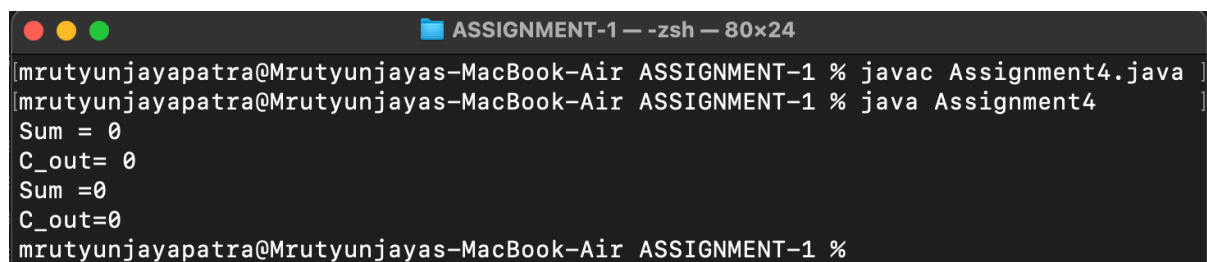


A terminal window titled "ASSIGNMENT-1 — zsh — 80x24" on a Mac. The user is mrutyunjayapatra@Mrutyunjayas-MacBook-Air. The terminal shows the compilation and execution of the Assignment3.java file. The output displays the temperature in Kelvin (363.15) and Fahrenheit (122.0).

```
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment3.java  
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment3  
Temperature in kelvin=363.15  
Temperature in Fahrenheit=122.0  
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

4. Write a java program to implement adder circuit and booth algorithm using bitwise operator?

```
public class Assignment4 {  
    public static void main(String[] args) {  
        int num1=0, num2=0 , C_In=0, C_Out;  
        int sum;  
        //for half adder circuit  
        sum = num1 ^ num2;  
        C_Out = num1 & num2;  
        System.out.println("Sum = "+ sum);  
        System.out.println("C_out= "+C_Out);  
        //for full adder  
        sum=C_In ^ (num1 ^ num2);  
        C_Out = (num1 & num2) | (num2 & C_In) | (num1 & C_In);  
        System.out.println("Sum =" + sum);  
        System.out.println("C_out=" + C_Out);  
    }  
}
```



A terminal window titled "ASSIGNMENT-1 — zsh — 80x24" on a MacBook-Air. The user runs the commands `javac Assignment4.java` and `java Assignment4`. The output shows the sum and carry-out for a half adder and a full adder, both resulting in 0.

```
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment4.java  
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment4  
Sum = 0  
C_out= 0  
Sum =0  
C_out=0  
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

5. Write a java program to find following without using looping and decision making

i. Sum of all digits of any 4 digit numbers

```
public class Assignment5_1 {  
    public static void main(String[] args) {  
        int num = 1624;  
        int sum = 0, rem;  
        rem = num % 10;  
        sum += rem;  
        rem = 0;  
        num = num / 10;  
        rem = num % 10;  
        sum += rem;  
        rem = 0;  
        num = num / 10;  
        rem = num % 10;  
        sum += rem;  
        rem = 0;  
        num = num / 10;  
  
        rem = num % 10;  
        sum += rem;  
        rem = 0;  
        num = num / 10;  
        System.out.println(sum);  
    }  
}
```

```
ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_1.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_1
13
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % |
```

ii. find the face value and position value of any 4 digit number?

```
public class Assignment5_2 {
    public static void main(String[] args) {
        int num;
        num = 6319;
        System.out.println("First          number\n\tface
value:"+(num/1000)+" \n\tposition value: "+(num - num % 1000));
        System.out.println("First          number\n\tface
value:"+(num/100%10)+" \n\tposition  value:  "+(num/100%10 *
100));
        System.out.println("First          number\n\tface
value:"+(num/10%10)+" \n\tposition value: "+(num/10%10 * 10));
        System.out.println("First          number\n\tface
value:"+(num%10)+" \n\tposition value: "+(num%10));
    }
}
```

```
ASSIGNMENT-1 — -zsh — 80x24
[mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_2.java]
[mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_2]
First number
    face value:6
    position value: 6000
First number
    face value:3
    position value: 300
First number
    face value:1
    position value: 10
First number
    face value:9
    position value: 9
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % |
```

iii. Find the value available at position required by user it may be 10,100 or 1000?

```
public class Assignment5_3 {
    public static void main(String[] args) {
        int num=6198;

        System.out.println("The number: "+num);
        System.out.println("Value available at position 1000:
" +(num/1000));
        System.out.println("Value available at position 100:
" +(num/100%10));
        System.out.println("Value available at position 10:
" +(num/10%10));
        System.out.println("Value available at position 1:
" +(num%10));
    }
}
```

```
ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_3.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_3
The number: 6198
Value available at position 1000: 6
Value available at position 100: 1
Value available at position 10: 9
Value available at position 1: 8
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

iv. Sum of product of consecutive digits of any 4 digit number? Suppose num=1234 then output= $4*3+3*2+2*1$

```
public class Assignment5_4 {
    public static void main(String[] args) {
        int num=6198;
        int a,b,c,d,ans=0;

        a=num%10;
        num/=10;

        b=num%10;
        num/=10;

        c=num%10;
        num/=10;

        d=num%10;
        num/=10;
```

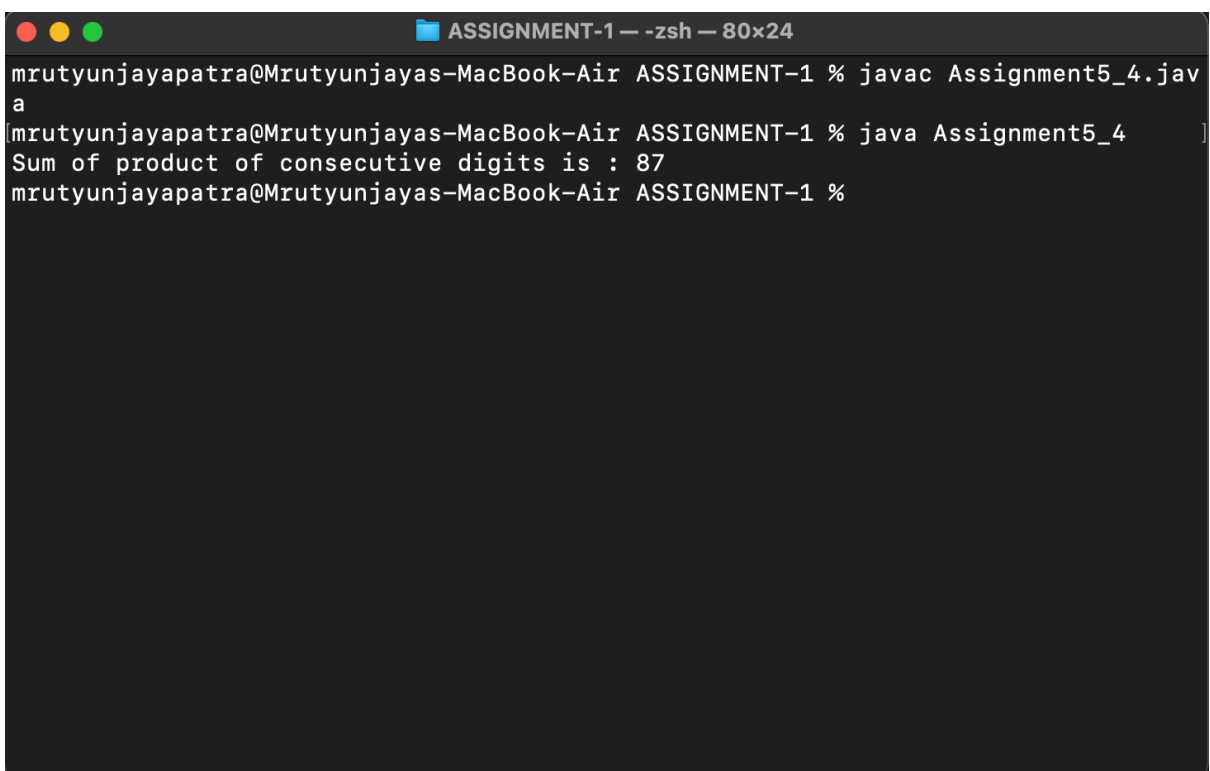


```

        ans=(a*b)+(b*c)+(c*d);
        System.out.println("Sum of product of consecutive
digits is : "+ans);

    }
}

```



A terminal window titled "ASSIGNMENT-1 — zsh — 80x24" on a MacBook-Air. The user 'mrutyunjayapatra' runs 'javac Assignment5_4.java' and then 'java Assignment5_4'. The output is 'Sum of product of consecutive digits is : 87'.

```

mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_4.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_4
Sum of product of consecutive digits is : 87
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %

```

v. find sum of product of corresponding digits of two any 4 digit number Such as $n=1234$ $m=7896$ output= $6*4+9*3+8*2+7*1$

```

public class Assignment5_5 {
    public static void main(String[] args) {

        int n = 1234, m = 7896, sum = 0;
        int a1, b1, c1, d1;
    }
}

```

```
int a2, b2, c2, d2;

a1 = n % 10;
n /= 10;

b1 = n % 10;
n /= 10;

c1 = n % 10;
n /= 10;

d1 = n % 10;
n /= 10;

a2 = m % 10;
m /= 10;
b2 = m % 10;
m /= 10;
c2 = m % 10;
m /= 10;
d2 = m % 10;
m /= 10;

sum = a1 * a2 + b1 * b2 + c1 * c2 + d1 * d2;

System.out.println("Sum of product of corresponding
digits n=1234 and m=7896 is : "+sum);

}
}
```

```
ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_5.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_5
Sum of product of corresponding digits n=1234 and m=7896 is : 74
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

vi. find bitwise and , or , and xor of 2nd and 4th digit of any 4 digit number?

```
public class Assignment5_6 {
    public static void main(String[] args) {

        int num=1234;
        int m, n, temp;

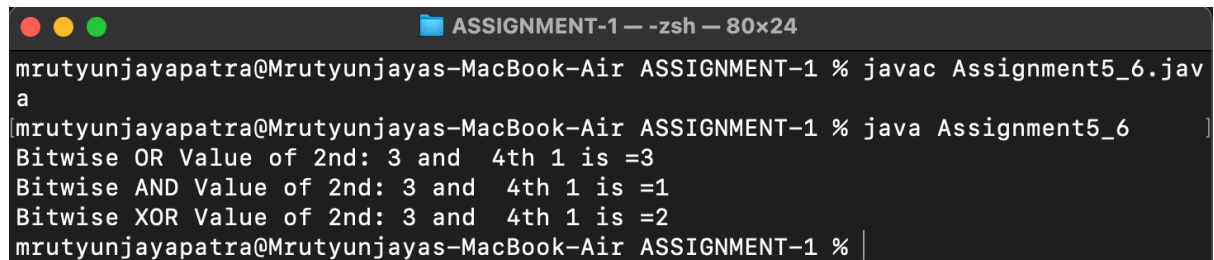
        m=((num/10) %10);
        n=((num/1000) %10);
        temp=m|n;
        System.out.println("Bitwise OR Value of 2nd: "+m+" and
"+" 4th "+n+" is "+temp);
        temp=m&n;
        System.out.println("Bitwise AND Value of 2nd: "+m+"
and "+" 4th "+n+" is "+temp);
        temp=m^n;
    }
}
```

```

        System.out.println("Bitwise XOR Value of 2nd: "+m+"
and "+" 4th "+n+" is =" +temp);

    }
}

```



```

ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_6.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_6
Bitwise OR Value of 2nd: 3 and 4th 1 is =3
Bitwise AND Value of 2nd: 3 and 4th 1 is =1
Bitwise XOR Value of 2nd: 3 and 4th 1 is =2
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % |

```

vii. Find left shift, right shift and zero fill of summation of all digits of any 4 digit number and it will be shifted by 3rd digit of any 4 digit number?

```

public class Assignment5_7 {
    public static void main(String[] args) {

        int num, sum, d1, d2, d3, d4;
        num = 9728;

        d1 = num / 1000;
    }
}

```

```

        d2 = num / 100 % 10;
        d3 = num / 10 % 10;
        d4 = num % 10;

        sum = d1 + d2 + d3 + d4;

        System.out.println("The number is: " + num);
        System.out.println("The Sum of the digits is: " +
sum);
        System.out.println("Left shift upto " + d3 + " to sum
is: " + (sum << d3));
        System.out.println("Right shift upto " + d3 + " to sum
is: " + (sum >> d3));
        System.out.println("Right shift and zero fill upto " +
d3 + " to sum is: " + (sum >>> d3));

    }
}

```

```

ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment5_7.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment5_7
The number is: 9728
The Sum of the digits is: 26
Left shift upto 2 to sum is: 104
Right shift upto 2 to sum is: 6
Right shift and zero fill upto 2 to sum is: 6
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %

```

6. Write a java program to find following using conditional operator and without using looping and decision making ?
- a. Sum of all even digits of any 4 digit number

```
public class Assignment6_1 {  
    public static void main(String[] args) {  
        int num = 2242, rem = 0, sum = 0;  
  
        rem = num % 10;  
        sum += rem % 2 == 0 ? rem : 0;  
        num = num / 10;  
        rem = 0;  
  
        rem = num % 10;  
        sum += rem % 2 == 0 ? rem : 0;  
        num = num / 10;  
        rem = 0;  
  
        rem = num % 10;  
        sum += rem % 2 == 0 ? rem : 0;  
        num = num / 10;  
        rem = 0;  
  
        rem = num % 10;  
        sum += rem % 2 == 0 ? rem : 0;  
        num = num / 10;  
        rem = 0;  
  
        System.out.println("Sum of the even digit number is :  
" + sum);  
    }  
}
```

```
ASSIGNMENT-1 — -zsh — 82x25
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_1.java
Sum of the even digit number is : 10
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_1
Sum of the even digit number is10
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

b) Sum of all odd digits of any 4 digit number

```
public class Assignment6_2 {
    public static void main(String[] args) {
        int num = 1243, rem = 0, sum = 0;

        rem = num % 10;
        sum += rem % 2 != 0 ? rem : 0;
        num = num / 10;
        rem = 0;

        rem = num % 10;
        sum += rem % 2 != 0 ? rem : 0;
        num = num / 10;
        rem = 0;

        rem = num % 10;
        sum += rem % 2 != 0 ? rem : 0;
        num = num / 10;
        rem = 0;
```

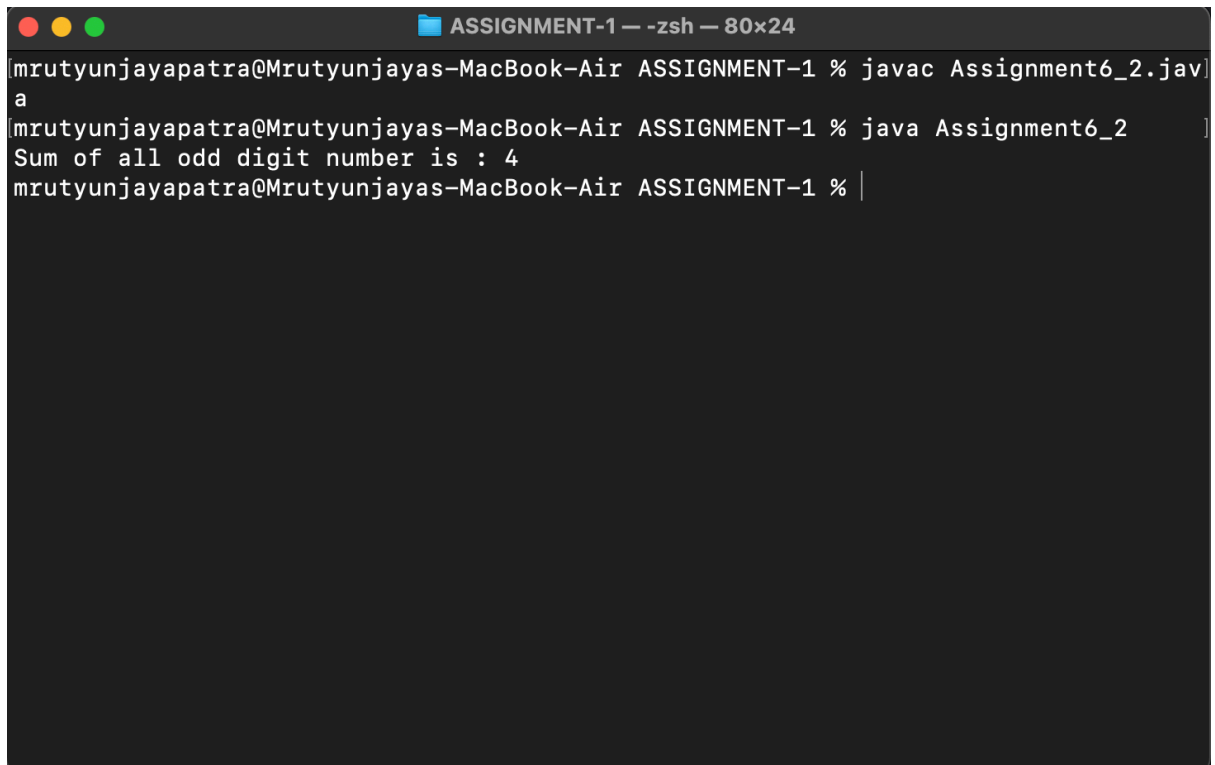
```

        rem = num % 10;
        sum += rem % 2 != 0 ? rem : 0;
        num = num / 10;
        rem = 0;

        System.out.println("Sum of all odd digit number is : "
+ sum);

    }
}

```



```

ASSIGNMENT-1 - zsh - 80x24
[mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_2.java]
[mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_2]
Sum of all odd digit number is : 4
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %

```

c) Difference between average of all even digits except divisible by 4 and average of all odd digits except divisible by 3 of any 4 digit number

```

public class Assignment6_3 {
    public static void main(String[] args) {
        int num=1334;
        int sum1=0,sum2=0,rem=0;
    }
}

```



```
rem=num%10;
sum1+=(rem%2==0?(rem%4!=0?rem:0):0);
sum2+=(rem%2!=0?rem:0);
rem=0;
num=num/10;
```

```
rem=num%10;
sum1+=(rem%2==0?(rem%4!=0?rem:0):0);
sum2+=(rem%2!=0?rem:0);
rem=0;
num=num/10;
```

```
rem=num%10;
sum1+=(rem%2==0?(rem%4!=0?rem:0):0);
sum2+=(rem%2!=0?rem:0);
rem=0;
num=num/10;
```

```
rem=num%10;
sum1+=(rem%2==0?(rem%4!=0?rem:0):0);
sum2+=(rem%2!=0?rem:0);
rem=0;
num=num/10;
```

```
    System.out.println("The difference tween average of  
all even digits except divisble by 4 and avearge of all odd  
digits except divisble by 3 of any 4 digit number is :  
"+(sum1-sum2));  
}  
}
```

```
ASSIGNMENT-1 — -zsh — 80x24
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_3.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_3
The difference between average of all even digits except divisible by 4 and average
of all odd digits except divisible by 3 of any 4 digit number is : -7
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

d) Sum of product of consecutive even digits of any 4 digit number?
Suppose num=1624 then output= $4*2+2*6$

```
public class Assignment6_4 {
    public static void main(String[] args) {
        int num=1624;
        int a=0,b=0,c=0,d=0,rem=0;

        rem=num%10;
        a=rem%2==0?rem:0;
        num/=10;
        rem=0;

        rem=num%10;
        b=rem%2==0?rem:0;
        num/=10;
        rem=0;
```

```
    rem=num%10;
    c=rem%2==0?rem:0;
    num/=10;
    rem=0;

    rem=num%10;
    d=rem%2==0?rem:0;
    num/=10;
    rem=0;

    int sum=0;

    sum+=( (a!=0 && b!=0)?(a*b):0);
    sum+=( (b!=0 && c!=0)?(b*c):0);
    sum+=( (c!=0 && d!=0)?(c*d):0);

    System.out.println("Sum of product of consecutive even
digits of any 4 digit number? Supoosenum=1624"+sum);

}
}
```

```
ASSIGNMENT-1 — -zsh — 100x25
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_4.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_4
Sum of product of consecutive even digits of any 4 digit number? Supoosenum=16242
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

e) Sum of product of consecutive odd digits of any 4 digit number?
Supoose num=1356 then output= $5*3 + 3*1$

```
public class Assignment6_5 {
    public static void main(String[] args) {

        int num=1356;
        int a=0,b=0,c=0,d=0,rem=0;

        rem=num%10;
        a=rem%2!=0?rem:0;
        num/=10;
        rem=0;

        rem=num%10;
        b=rem%2!=0?rem:0;
        num/=10;
        rem=0;
```

```
rem=num%10;  
c=rem%2!=0?rem:0;  
num/=10;  
rem=0;
```

```
rem=num%10;  
d=rem%2!=0?rem:0;  
num/=10;  
rem=0;
```

```
int sum=0;
```

```
sum+=((a!=0 && b!=0)?(a*b):0);  
sum+=((b!=0 && c!=0)?(b*c):0);  
sum+=((c!=0 && d!=0)?(c*d):0);
```

```
System.out.println("Sum of product of consecutive odd  
digits of any 4 digit number? Suppose num=1356"+sum);
```

```
}
```

```
}
```

```
ASSIGNMENT-1 — -zsh — 100x25
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_5.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_5
Sum of product of consecutive odd digits of any 4 digit number? Suppose num=13561
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % |
```

f) Difference between Sum of product of consecutive even digits except 2 and 6 and Sum of product of consecutive odd digits except 3 and 7 of any 4 digit number

```
public class Assignment6_6 {
    public static void main(String[] args) {
        int num=1122;
        int rem=0,a1,b1,c1,d1,a2,b2,c2,d2;

        rem=num%10;
        a1=((rem%2==0)?(rem!=2 && rem!=6?rem:0):0);
        a2=rem%2!=0?(rem!=3 && rem!=7?rem:0):0;
        num/=10;
        rem=0;

        rem=num%10;
        b1=((rem%2==0)?(rem!=2 && rem!=6?rem:0):0);
        b2=rem%2!=0?(rem!=3 && rem!=7?rem:0):0;
        num/=10;
```

```
rem=0;
```

```
rem=num%10;
```

```
c1=((rem%2==0)?(rem!=2 && rem!=6?rem:0):0);
```

```
c2=rem%2!=0?(rem!=3 && rem!=7?rem:0):0;
```

```
num/=10;
```

```
rem=0;
```

```
rem=num%10;
```

```
d1=((rem%2==0)?(rem!=2 && rem!=6?rem:0):0);
```

```
d2=rem%2!=0?(rem!=3 && rem!=7?rem:0):0;
```

```
num/=10;
```

```
rem=0;
```

```
int sum1=0,sum2=0;
```

```
sum1+=(a1!=0 && b1!=0)?(a1*b1):0;
```

```
sum1+=(b1!=0 && c1!=0)?(b1*c1):0;
```

```
sum1+=(c1!=0 && d1!=0)?(c1*d1):0;
```

```
sum2+=(a2!=0 && b2!=0)?(a2*b2):0;
```

```
sum2+=(b2!=0 && c2!=0)?(b2*c2):0;
```

```
sum2+=(c2!=0 && d2!=0)?(c2*d2):0;
```

```
System.out.println("Difference between Sum of product  
of consecutive even digits except 2 and 6 and Sum of product of  
consecutive odd digits except 3 and 7 of any 4 digit number  
: "+(sum1-sum2));
```

```
}
```

```
}
```

```
ASSIGNMENT-1 — -zsh — 82x25
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_6.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_6
Difference between Sum of product of consecutive even digits except 2 and 6 and Sum
of product of consecutive odd digits except 3 and 7 of any 4 digit number : -1
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```

g) Write a java program to find sum of product of corresponding even digits of first any digit number and corresponding odd digit of any 4 digit number Such as n=1234 m=4567 output=4*7+2*5

```
public class Assignment6_7 {
    public static void main(String[] args) {
        int m = 1234, n = 4567;
        int ans = 0, rem = 0;
        int a1, b1, c1, d1;
        int a2, b2, c2, d2;

        //First number
        rem = m % 10;
        a1 = rem % 2 == 0 ? rem : 0;
        rem = 0;
        m /= 10;
        System.out.println(a1);

        rem = m % 10;
        b1 = rem % 2 == 0 ? rem : 0;
```



```
rem = 0;
m /= 10;

rem = m % 10;
c1 = rem % 2 == 0 ? rem : 0;
rem = 0;
m /= 10;

rem = m % 10;
d1 = rem % 2 == 0 ? rem : 0;
rem = 0;
m /= 10;

// second number
rem = n % 10;
a2 = rem % 2 != 0 ? rem : 0;
rem = 0;
n /= 10;

rem = n % 10;
b2 = rem % 2 != 0 ? rem : 0;
rem = 0;
n /= 10;

rem = n % 10;
c2 = rem % 2 != 0 ? rem : 0;
rem = 0;
n /= 10;

rem = n % 10;
d2 = rem % 2 != 0 ? rem : 0;
rem = 0;
n /= 10;

ans += (a1 != 0 && a2 != 0) ? a1 * a2 : 0;
```

```
ans += (b1 != 0 && b2 != 0) ? b1 * b2 : 0;
ans += (c1 != 0 && c2 != 0) ? c1 * c2 : 0;
ans += (d1 != 0 && d2 != 0) ? d1 * d2 : 0;
```

```
System.out.println("Sum of product of corresponding  
even digits of first any digit number and corresponding odd  
digit of any 4 digit number Such as n=1234 m=4567"+ans);
```

```
}
```

```
}
```

```
ASSIGNMENT-1 — -zsh — 82x25
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % javac Assignment6_7.java
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 % java Assignment6_7
4
Sum of product of corresponding even digits of first any digit number and correspo
nding odd digit of any 4 digit number Such as n=1234 m=456738
mrutyunjayapatra@Mrutyunjayas-MacBook-Air ASSIGNMENT-1 %
```