

Assignment - 3

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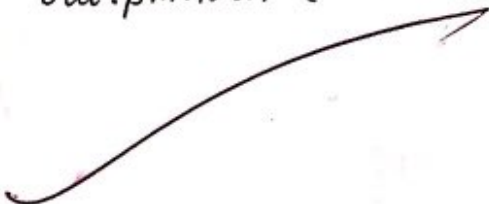
Sect.

Date.

TASK-1

```
out.println ("Please enter a mark");  
int mark = sc.nextInt();
```

```
if (mark > 50) {  
    out.println ("Pass");  
}  
else {  
    out.println ("You shall not pass");  
}
```



TASK-2

```
out.println ("Please enter a mark");  
int mark = sc.nextInt();
```

```
if (mark > 100) {  
    out.print ("Wrong Input");  
}
```

```
else if (mark >= 90) {  
    out.print ("A");  
}
```

```
else if (mark >= 80) {  
    out.print ("B");  
}
```

```
else if (mark >= 70) {  
    out.print ("C");  
}
```

```
else if (mark >= 60) {  
    out.print ("D");  
}
```

```
else if (mark >= 50) {  
    out.print ("E");  
}
```

```
else if (mark >= 0) {  
    out.print ("F");  
}
```

```
else {  
    out.print ("Wrong Input");  
}
```

TASK-3

```
out.println ("Please enter a length");
int length = sc.nextInt();
out.println ("Please enter a width");
int width = sc.nextInt();
int area;
area = length * width;
out.println ("area: " + area);
```

TASK-4

```
out.print ("Please enter a payment");
int payment = sc.nextInt();
out.print ("Please enter an age");
int age = sc.nextInt();
int tax;
if (age < 18) {
    out.print ("No Tax");
}
else {
    if (payment < 10000) {
        out.print ("No Tax");
    }
    else {
        if (payment > 20000) {
            tax = payment / 10;
        }
        else {
            tax = payment / 20;
        }
        out.print (tax);
    }
}
```

TASK-5

```
out.print ("Please enter number of seconds");  
int seconds = sc.nextInt();  
int hour, minute;
```

hour = seconds / 3600;

seconds = seconds % 3600;

minute = seconds / 60;

seconds = seconds % 60;

Store
remainden

divisor
since int,
so whole no.
i.e. eikhaire
2 hour

```
out.println ("hour: " + hour + " min: " + minute +  
"seconds: " + seconds);
```

TASK-6

```
out.print ("Please enter a value for S");
```

```
int S = sc.nextInt();
```

```
int L;
```

```
if (S >= 100) {
```

$L = 12000 / (4 + (S * S * 14900))$;

```
}
```

```
else {
```

$L = 3000 - (125 * S * S)$;

```
}
```

```
out.print ("L: " + L);
```


TASK-7

```
out.print ("Please enter the length of a side");  
int x = sc.nextInt();  
out.print ("Please enter the length of another side");  
int y = sc.nextInt();  
out.print ("Please enter the length of another side");  
int z = sc.nextInt();  
int s;  
double area;  
  
s = (x + y + z) / 2;  
area = Math.sqrt (s * (s - x) * (s - y) * (s - z));  
out.print ("area: " + area);
```

TASK-8

```
out.print ("Please enter the numbers of published articles");  
int num = sc.nextInt();  
int total_fees = num * 500;  
out.print ("Fees: " + total_fees);
```

TASK-9

```
out.print ("Please enter a num1");
int num1 = sc.nextInt();

out.print ("Please enter a num2");
int num2 = sc.nextInt();

out.print ("Please enter a num3");
int num3 = sc.nextInt();

if (num1 > num2) {
    if (num1 > num3) {
        out.print (num1);
    }
    else {
        out.print (num3);
    }
}
else {
    if (num2 > num3) {
        out.print (num2);
    }
    else {
        out.print (num3);
    }
}
```

TASK-10

```
out.print ("Please enter the name of your favourite car");  
String car = sc.next();  
for (int counter = 0; counter < 4; counter++) {  
    out.println(car);  
}
```

TASK-11

```
out.print ("Please enter a value for a");  
int a = sc.nextInt();  
out.print ("Please enter a value for b");  
int b = sc.nextInt();  
int temp;  
temp = a;  
a = b;  
b = temp;  
out.print ("a = " + a);  
out.print ("b = " + b);
```

TASK-12

```
out.print ("Please enter a value for a");
int a = sc.nextInt();
out.print ("Please enter a value for b");
int b = sc.nextInt();
out.print ("Please enter a value for c");
int c = sc.nextInt();
int temp;

temp = b;
b = a;
a = c;
c = temp;
out.print ("a = " + a + " b = " + b + " c = " + c);
```

TASK-13

```
out.print ("Please enter a value for a");
int a = sc.nextInt();
out.print ("Please enter a value for b");
int b = sc.nextInt();
out.print ("Please enter a value for c");
int c = sc.nextInt();
out.print ("Please enter a value for d");
int d = sc.nextInt();
int temp;

temp = c;
c = d;
d = a;
a = b;
b = temp;
out.print ("a = " + a + " b = " + b + " c = " + c + " d = " + d);
```


TASK-14

```
out.print ("Please enter a number");  
int number = sc.nextInt();  
if (number < 0) {  
    number = number * (-1);  
}  
else {  
}  
out.print (number);
```

```
out.print ("Please enter time");
int time = sc.nextInt();
if (time > 23) {
    out.print ("Wrong Input");
}
else if (time > 20) {
    out.print ("Patience is a virtue");
}
else if (time >= 19) {
    out.print ("Dinner");
}
else if (time > 17) {
    out.print ("Patience is a virtue");
}
else if (time >= 16) {
    out.print ("Snacks");
}
else if (time > 13) {
    out.print ("Patience is a virtue");
}
else if (time >= 12) {
    out.print ("lunch");
}
else if (time > 6) {
    out.print ("Patience is a virtue");
}
else if (time >= 4) {
    out.print ("Breakfast");
}
else if (time >= 0) {
    out.print ("Patience is a virtue");
}
else {
    out.print ("Wrong Input");
}
```

Assignment - 4

Course: CSE110 Sec: 05
ID: 17201116
Assignment: 4
Date: 5th Nov, 2017

TASK-01

```
out.println("Please enter the name of your favourite car");  
String name = sc.next();  
out.println("Please enter a number");  
int num = sc.nextInt();  
for (int c=1 ; c <= num ; c++) {  
    out.println(name);  
}
```

TASK-02

```
for (int n=10 ; n <= 50 ; n++) {  
    if (n % 2 == 1) {  
        out.println(n);  
    }  
}
```

No need
else {
}

TASK - 03

```
out.println ("Please enter a number");
```

```
int x = sc.nextInt();
```

```
int max = x;
```

```
double sum = x;
```

```
for (int c = 1; c <= 20; c++) {
```

```
    out.println ("Please enter another number");
```

```
    int y = sc.nextInt();
```

```
    sum += y;
```

```
    if (y > max) {
```

```
        max = y;
```

```
    }
```

```
    } else {
```

```
    }
```

```
out.println ("Max: " + max + " " + "Avg: " + (sum/20))
```

```
}
```

```
int num, min;  
double avg;  
int sum = 0;  
out.println ("num =  
num =
```



```

int num, min;
double avg;
int sum = 0;

out.println ("Please enter a number");
num = sc.nextInt();
min = num;
int even = 0;
if (num % 2 == 0) {
    even++;
    sum = num; }

for (int i = 1; i <= 19; i++) {
    out.println ("Please enter another number");
    num = sc.nextInt();
    if (num < min) {
        min = num;
        if (num % 2 == 0) {
            even++;
            sum += num; }
        }
    avg = sum / even;
    out.println ("Min: " + min);
    out.println ("Avg: " + avg);
    }
}

```

it will
replace
numbers
← previous

TASK-05

```
out.println ("Please enter a value of N");
int n = sc.nextInt();
int sum = 0;
for (int c = 1; c <= n; c++) {
    sum = sum + (c * c * c);
}
double y = Math.cbrt(sum);
out.println (y);
```

TASK-06

```
out.println ("Please enter a value for N");
int n = sc.nextInt();
int y = 0, sign = 1;
for (int c = 1; c <= n; c++) {
    y = y + (sign * c * c);
    sign = sign * (-1);
}
out.println (y);
```

TASK-07

```
int sum=0;
do (int x=0; x <= 600; x++) {
    if (x%7 == 0) {
        if (x%9 == 0) {
            sum += x;
        }
    }
    else {
    }
}
out.println (sum);
```

TASK-08

```
int sum=0;
do (int x=0; x <= 600; x++) {
    if (x%7 == 0) {
        sum += x;
    }
    else {
        if (x%9 == 0) {
            sum += x;
        }
    }
}
out.print ("sum: " + sum);
```

TASK-09

```
int sum=0;
for (int x=0; x <= 800; x++) {
    if (x%7 == 0) {
        if (x%9 == 0) {
            }
        else {
            sum+=x;
        }
    }
    else {
        if (x%9 == 0) {
            sum+=x;
        }
        else {
            }
    }
}
out.print (sum);
```


TASK-10

```
int sum=0, OddCount=0;
do {
    (int c=1; c <= 10; c++) {
        out.println("Please enter a no.");
        int x = sc.nextInt();
        if (x % 2 == 1) {
            sum += x;
            OddCount++;
        }
        else {
        }
    }
}
double avg = sum / OddCount;
out.print("sum: " + sum + " " + "avg: " + avg);
```

TASK-11

```
int sum=0, evenCount=0;
do {
    (int c=1; c <= 10; c++) {
        out.println("Please enter a no.");
        int x = sc.nextInt();
        if (x % 2 == 0) {
            sum += x;
            evenCount++;
        }
        else {
        }
    }
}
double avg = sum / evenCount;
out.print("sum: " + sum + " " + "avg: " + avg);
```

No need

TASK-12

```
int sum=0, xCount=0;
for (int c=1; c<=10; c++) {
    out.println("Please enter a no.");
    int x = sc.nextInt();
    if (x%4 == 0) {
        sum += x;
        xCount++;
    }
    else {
    }
}
double avg = sum / xCount;
out.print("sum: " + sum + " " + "avg: " + avg);
```

TASK-13

```
out.println("Please enter a number");
int num = sc.nextInt();
int sum = 0;
for (int x=1; x<=num; x++) {
    if (x%2 == 0) {
    }
    else {
        sum += x;
    }
}
out.print("sum: " + sum);
```

TASK-14

```
out.println ("Please enter a number");
int n = sc.nextInt();
int product = 1;
do {
    out.print ("Please enter a digit");
    int x = sc.nextInt();
    product = product * x;
}
out.print ("product: " + product);
```

TASK-15

```
out.println ("Please enter a number");
int n = sc.nextInt();
int sum = n;
out.print ("sum: " + sum);
do {
    out.println ("Please enter another number");
    n = sc.nextInt();
    sum += n;
    out.print ("sum: " + sum);
}
??
```

print format

TASK-16

```
out.println ("Please enter a mark");
int mark = sc.nextInt();
int max = mark, min = mark, sum = mark;
for (int c = 1; c <= 10; c++) {
    out.println ("Please enter another mark");
    mark = sc.nextInt();
    sum += mark;
    if (mark < min) {
        min = mark;
    }
    else {
        if (mark > max) {
            max = mark;
        }
        else {
        }
    }
}
double avg = sum / 10;
out.println ("max: " + max);
out.println ("min: " + min);
out.println ("avg: " + avg);
```

int a=0;
out.println
out

TASK-17

```
int a=0, b=1, c=(a+b);  
out.println(a);  
out.println(b);  
out.println(c);  
while (c <= 1000) {  
    a=b;  
    b=c;  
    c=a+b;  
    out.println(c);  
}
```

TASK 18

```
out.println("Please enter a number");  
int n=sc.nextInt();
```

```
int y=1;
```

```
do (int c=0; c <= y; c++) {
```

```
    if (n/10 == 0) {
```

```
    }
```

```
    else {
```

```
        y++;  
        n = n/10;
```

```
    }
```

```
}
```

```
out.println("digits: " + y);
```

if n=981
???

??

} ??

TASK - 19

```
out.print ("Please give a number");
```

```
int x = sc.nextInt();
```

```
int p = 1;
```

```
for (int c = 1; c <= 2.?(n); c++) {  
    p = p * 10;  
}
```

```
out.print (p);
```

TASK - 20

```
out.print ("Please give me a number");
```

```
int n = sc.nextInt();
```

```
while (n > 0) {
```

```
    int r = n % 10;
```

```
    out.print (r);
```

```
    n = n / 10;
```

```
}
```

TASK-21

```
int num, temp, totalDigit, digit, product, count;
out.println("Please enter a number");
num = sc.nextInt();
temp = num;
for (c = 1; temp != 0; c++) {
    temp = temp / 10;
}
totalDigit = count - 1;
product = 1;
for (c = 1; c < totalDigit; c++) {
    product * = 10;
}
for (c = 1; product != 0; c++) {
    digit = num / product;
    out.print(digit + " , ");
    num = num % product;
    product /= 10;
}
```

TASK 22

```
out.println("Please enter a number between 0 and 9");
int num = k.nextInt();
if (num == 0) {
    out.println("zero");
}
else if (num == 1) {
    out.println("One");
}
else if (num == 2) {
    out.println("Two");
}
else if (num == 3) {
    out.println("Three");
}
else if (num == 4) {
    out.println("Four");
}
else if (num == 5) {
    out.println("Five");
}
else if (num == 6) {
    out.println("Six");
}
else if (num == 7) {
    out.println("Seven");
}
else if (num == 8) {
    out.println("Eight");
}
else if (num == 9) {
    out.println("Nine");
}
```



```

int num, temp, totalDigit, digit, product, count;
out.println("Please enter a number");
num = scanner.nextInt();
temp = num;
do (count=1; temp != 0; count++) {
    temp = temp / 10;
}
totalDigit = count - 1;
product = 1;
do (count=1; count < totalDigit; count++) {
    product *= 10;
}
do (count=1; product != 0; count++) {
    digit = num / product;
    if (digit == 0) {
        out.print("zero");
    }
    else if (digit == 1) {
        out.print("one");
    }
    else if (digit == 2) {
        out.print("two");
    }
    else if (digit == 3) {
        out.print("three");
    }
    else if (digit == 4) {
        out.print("four");
    }
    else if (digit == 5) {
        out.print("five");
    }
    else if (digit == 6) {
        out.print("six");
    }
    else if (digit == 7) {
        out.print("seven");
    }
}

```

```
else if (digit == 8) {  
    out.print ("Eight ");  
}  
else if (digit == 9) {  
    out.print ("Nine ");  
}  
num = num % product;  
product /= 10;  
}
```

TASK - 24

```
out.println ("Please give me a numbers");  
int x = sc.nextInt();  
  
for (int c = 1; c <= x; c++) {  
    out.print (c);  
}
```

TASK-25

```
out.print("Please give a number");
int n = sc.nextInt();

int y = 0;
for (int c = 1; c <= n; c++) {
    if (n / c == 0) {
        y++;
    }
}
out.print(y);
```

TASK-26

```
out.print("Please give number");
int num = sc.nextInt();
int x = 0;

for (int c = 1; c <= num; c++) {
    if (num / c == 0) {
        x++;
    }
}

if (x == 2) {
    out.print("Prime");
}
else {
    out.print("Not prime");
}
```

TASK-27

```
for (int num=1; num<=1000; num++) {  
    int factor=0;  
    for (int c=1; c<=num; c++) {  
        if (num%c==0) {  
            factor++;  
        }  
    }  
    if (factor==2) {  
        out.println(num);  
    }  
}
```

TASK-28

```
out.print ("Please give a number");  
int num= sc.nextInt();  
double sum=0;  
for (int c=1; c<=num; c++) {  
    if (num%c==0) {  
        sum+=c;  
    }  
}  
out.print (sum);
```

TASK-29

```
int num, c, factorSum;
out.println("Please enter a number");

num = k.nextInt();
factorSum = 0;
do (c = 1; c < num; c++) {
    if (num % c == 0) {
        factorSum += c;
    }
}
if (factorSum == num) {
    out.println(num + " is a perfect number");
} else {
    out.println(num + " is not a perfect number");
}
```

println ("pl
nt value
out.pr

TASK-30

```
in.println ("Please enter the lowest value");
```

```
int valueL = sc.nextInt();
```

```
out.println ("Please enter the highest value");
```

```
int valueH = sc.nextInt();
```

```
int primeCount = 0;
```

```
int perfectCount = 0;
```

```
for (int num = valueL; num <= valueH; num++) {
```

```
    int factor = 0;
```

```
    int factorSum = 0;
```

```
    for (int count = 1; count <= num; count++) {
```

```
        if (num % count == 0) {
```

```
            factor++;
```

```
            if (count != num) {
```

```
                factorSum += count;
```

```
            }
```

```
        }
```

```
    }
```

```
    if (factor == 2) {
```

```
        primeCount++;
```

```
    }
```

```
    if (factorSum == num) {
```

```
        perfectCount++;
```

```
    }
```

```
}
```

```
out.println ("Between " + valueL + " and " + valueH + "
```

```
    \nfound " + prime
```

1. Write a Java program that takes two numbers and divide them, and eventually print on the screen.

```
import java.util.Scanner;
public class TaskOne {
    public static void main (String [ ] args) {
        Scanner sc = new Scanner (System.in);
        int num1, num2;

        System.out.println ("Enter a number");
        num1 = sc.nextInt ();
        System.out.println ("Enter another number");
        num2 = sc.nextInt ();

        int quotient;
        quotient = (num1 / num2);
        System.out.println ("Quotient: " + quotient);
    }
}
```

2. Write a Java program that takes two numbers as input and prints the product of the two numbers.

```
import java.util.Scanner;

public class TaskTwo {
    public static void main (String [ ] args) {
        Scanner sc = new Scanner (System.in);
        int x, y;

        System.out.println ("Enter a number");
        x = sc.nextInt();
        System.out.println ("Enter another number");
        y = sc.nextInt();
        int product;
        product = x * y;
        System.out.println ("Product is: " + product);
    }
}
```

Write a Java program to print the sum, multiply, subtract, divide and remainder of two numbers.

```
import java.util.Scanner;

public class TaskThree {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        int num1, num2;
        System.out.println ("Enter an Int");
        num1 = sc.nextInt();
        System.out.println ("Enter another Int");
        num2 = sc.nextInt();
        int sum, product, difference, quotient, remainder;
        sum = num1 + num2;
        product = num1 * num2;
        difference = num1 - num2;
        quotient = num1 / num2;
        ★ ⇒ remainder = num1 % num2
        System.out.println ("Sum: " + sum);
        System.out.println ("Product: " + product);
        System.out.println ("Difference: " + difference);
        System.out.println ("Quotient: " + quotient);
        System.out.println ("Remainder: " + remainder);
    }
}
```


4. Write a Java program to print the area and perimeter of a circle.

```
import java.util.Scanner;
```

```
public class TaskFour {
```

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

```
        Scanner sc = new Scanner (System.in);
```

```
        int radius, area, circumference;
```

```
        System.out.println ("Enter the radius of a circle");
```

```
        double radius = sc.nextDouble();
```

```
        double area = Math.PI * (radius * radius);
```

```
        System.out.println ("Area of a circle: " + area);
```

```
        double circumference = Math.PI * 2 * radius;
```

```
        System.out.println ("Circumference of a circle: " + circumference);
```

```
    }
```

```
}
```


9
Write a Java program to print the area and perimeter of a rectangle.

```
import java.util.Scanner;

public class TaskFive {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);

        int length, width, area, perimeter;

        System.out.println ("Enter length of Rectangle");
        length = sc.nextInt();
        System.out.println ("Enter width of Rectangle");
        width = sc.nextInt();

        area = length * width;
        System.out.println ("Area: " + area);
        perimeter = 2 * (length + width);
        System.out.println ("Perimeter: " + perimeter);
    }
}
```