

//----- Assignment 2.1 -----//

```
public class A2_1 {  
    public static void main(String args[]) {  
        System.out.println("Hello");  
        System.out.println("Yash Kukkar");  
    }  
}
```

/* Output

D:\DAC\Assignments>javac A2_1.java

D:\DAC\Assignments>java A2_1

Hello

Yash Kukkar

D:\DAC\Assignments> */

//----- Assignment 2.2 -----//

```
public class A2_2 {  
    public static void main(String args[]) {  
        int n= 74;  
        int m= 36;  
        System.out.println(n+" "+m+"="+ (n+m));  
    }  
}
```

//Output

/*

D:\DAC>Assignment>java A2_2

74+36=110

D:\DAC>Assignment> */

//----- Assignment 2.3 -----//

```
public class A2_3{  
    public static void main(String args[]) {  
        int i= 50;  
        int j= 3;  
        //int d= i/j;  
        System.out.println(i/j);  
    }  
}
```

// Output

// D:\DAC\Assignments>java A2_3

// 16

//----- Assignment 2.4 -----//

```
public class A2_4 {  
    public static void main(String args[]) {  
        System.out.println(-5+8*6);  
        System.out.println((55+9)%9);  
        System.out.println(20+(-3*5)/8);  
        System.out.println(5+15/3*2-8%3);  
    }  
}
```

// Output

// D:\DAC\Assignments>java A2_4

// 43

// 1

// 19

// 13

// D:\DAC\Assignments>

//----- Assignment 2.5 -----//

```
import java.util.*;
class A2_5 {
    public static void main(String args[]) {
        Scanner sc= new Scanner(System.in);
        int a= sc.nextInt();
        int b= sc.nextInt();
        System.out.println(a+" x "+b+" = "+a*b);
    }
}
```

/*Output

D:\DAC\Assignments>java A2_5

25

5

25 x 5 = 125

D:\DAC\Assignments> */

//----- Assignment 2.6 -----//

```
import java.util.*;
public class A2_6 {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt(); //125
        int b = sc.nextInt(); //24
        int sum = a + b;
        int sub = a - b;
        int prod = a * b;
        int q = a / b;
        int mod = a % b;
        System.out.println("125+24="+sum);
        System.out.println("125-24="+sub);
        System.out.println("125*24="+prod);
        System.out.println("125/24="+q);
        System.out.println("125 mod 24 =" +mod);
    }
}
```

// Output

// D:\DAC\Assignments>java A2_6

// 125

// 24

// 125+24=149

// 125-24=101

// 125*24=3000

// 125/24=5

// 125 mod 24 =5

// D:\DAC\Assignments>

//----- Assignment 2.7 -----//

```
import java.util.*;
public class A2_7 {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int a= sc.nextInt();
        for (int i=1;i<=10;i++) {
            System.out.println("8 x "+i+" = "+i*a);
        }
    }
}
```

// OUTPUT

// D:\DAC\Assignments>java A2_7

// 8

// 8 x 1 = 8

// 8 x 2 = 16

// 8 x 3 = 24

// 8 x 4 = 32

```
// 8 x 5 = 40
// 8 x 6 = 48
// 8 x 7 = 56
// 8 x 8 = 64
// 8 x 9 = 72
// 8 x 10 = 80
```

```
// D:\DAC\Assignments>
```

//----- Assignment 2.8 -----//

```
public class A2_8 {
    public static void main(String args[]) {
        System.out.println("  J   a   V   V   a   ");
        System.out.println("  J   a a   V   V   a a   ");
        System.out.println("J   J   aaaaa   V V   aaaaa ");
        System.out.println("J J   a       a   V   a       a");
    }
}
```

```
// OUTPUT
```

```
// D:\DAC\Assignments>java A2_8
```

```
//   J       a   V       V   a
//   J   a a   V       V   a a
// J   J   aaaaa   V V   aaaaa
// J   J   a       a   V   a       a
```

```
// D:\DAC\Assignments>
```

//----- Assignment 2.9 -----//

```
public class A2_9 {
    public static void main(String args[]) {
        System.out.println((25.5 * 3.5 - 3.5 * 3.5)/(40.5 - 4.5));
    }
}
```

```
// OUTPUT
```

```
// D:\DAC\Assignments>java A2_9
```

```
// 2.1388888888888889
```

```
// D:\DAC\Assignments>
```

//----- Assignment 2.10 -----//

```
public class A2_10 {
    public static void main (String args[]) {
        double n1=4.0;
        double n2= (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11));
        double n= n1*n2;
        System.out.println(n);
    }
}
```

```
// OUTPUT
```

```
// D:\DAC\Assignments>java A2_10
```

```
// 2.9760461760461765
```

```
// D:\DAC\Assignments>
```

//----- Assignment 2.11 -----//

```
public class A2_11 {
    public static void main(String args[]) {
        double d= 7.5;
        double P= 3.1415 * 2 * d;
        double A= 3.1415 * d * d;
        System.out.println("Perimeter is= "+P);
        System.out.println("Area is= "+A);
    }
}
```

```
//OUTPUT
```

```
// D:\DAC\Assignments>java A2_11
```

```
// Perimeter is= 47.1225
```

```
// Area is= 176.70937500000002
```

```
// D:\DAC\Assignments>
```

//----- Assignment 2.12 -----//

```
import java.util.*;
public class A2_12 {
    public static void main(String args[]) {
        Scanner sc= new Scanner(System.in);
        int a= sc.nextInt();
        int b= sc.nextInt();
        int c= sc.nextInt();
        int avg= (a+b+c)/3;
        System.out.println("The average of above 3 numbers is => "+avg);
    }
}
```

// OUTPUT

// D:\DAC\Assignments>java A2_12

// 5

// 10

// 28

// The average of above 3 numbers is => 14

// D:\DAC\Assignments>

//----- Assignment 2.13 -----//

```
public class A2_13 {
    public static void main(String args[]) {
        float width = 5.6F;
        float height = 8.5F;
        double area= width * height;
        double p = 2* (width + height);
        System.out.println("Area is 5.6*8.5 =" +area);
        System.out.println("Perimeter is 2*(5.6+8.5)=" +p);
    }
}
```

// OUTPUT

// D:\DAC\Assignments>java A2_13

// Area is 5.6*8.5 =47.599998474121094

// Perimeter is 2*(5.6+8.5)=28.200000762939453

// D:\DAC\Assignments>

```
public class A2_14 {
    public static void main(String args[]) {
        System.out.println("* * * * * =====");
        System.out.println(" * * * * * =====");
        System.out.println("* * * * * =====");
        System.out.println(" * * * * * =====");
        System.out.println("* * * * * =====");
        System.out.println(" * * * * * =====");
        System.out.println("* * * * * =====");
        System.out.println(" * * * * * =====");
        System.out.println("* * * * * =====");
        System.out.println("=====");
        System.out.println("=====");
        System.out.println("=====");
        System.out.println("=====");
        System.out.println("=====");
    }
}
```

//----- Assignment 2.14 -----//

```
import java.util.*;
public class A2_15 {
    public static void main(String args[]) {
        Scanner sc= new Scanner(System.in);
        int a= sc.nextInt();
        int b= sc.nextInt();
        System.out.println("=====");
        System.out.println("=      Swapping      =");
        a=a+b;
        b=a-b;
```

```
        a=a-b;
        System.out.println("=====");
        System.out.println(a);
        System.out.println(b);
    }
}
```

// OUTPUT

// D:\DAC\Assignments>java A2_15

// 5

// 8

// =====

// = Swapping =

// =====

// 8

// 5

// D:\DAC\Assignments>

//----- Assignment 2.15 -----//

```
public class A2_16 {
    public static void main(String args[]) {
        System.out.println(" +\"\"\"\"\"\"+ ");
        System.out.println("[ | o o | ]" );
        System.out.println(" | ^ | ");
        System.out.println(" | '_' | ");
        System.out.println(" +-----+ ");
    }
}
```

}

//----- Assignment 2.17 -----//

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