

Assignment-1

1. Write a Java program to print the product of two numbers.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 //1. Write a Java program to print the product of two numbers.
4
5 public class ProductOfTwo {
6
7     public static void main(String[] args) {
8         //Variable Declaration and Initialization
9         int a = 23;
10        int b=45;
11
12        //Printing the Output
13        System.out.println("The Product of "+a+" and "+b+" is "+a*b);
14    }
15
16 }
17
```

Codeshare Link: - <https://codeshare.io/yo0YLb>

Output: -

```
The Product of 23 and 45 is 1035
```

2. Write a Java program to calculate the average of three numbers.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 //2. Write a Java program to calculate the average of three numbers.
4
5
6 public class AverageOfThree {
7
8     public static void main(String[] args) {
9         //Average of Three Numbers
10
11        //Variable Declaration
12        double a,b,c,sum;
13
14        //Variable Initialization
15        a= 5;
16        b=3;
17        c=10;
18
19        //Performing Sum
20        sum = a + b + c;
21
22        //Printing the Average
23        System.out.println("The Average of Three Number is:"+sum/3);
24    }
25
26 }
27
```

Codeshare Link: - <https://codeshare.io/X8E4yk>

Output: -

```
The Average of Three Number is:6.0
```

3. Write a Java program to check whether a given number is even or odd.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 /*3. Write a Java program to check whether a given number is even or
4 odd.*/
5
6 public class EvenOrOdd {
7
8     public static void main(String[] args) {
9         //Variable Declaration and Initialization
10        int num=18;
11
12        //If Modulus of a number by 2 is Zero then it's even number
13        if(num % 2==0)
14            System.out.println("The Number is Even");
15        //else odd number
16        else
17            System.out.println("The Number is Odd");
18    }
19
20 }
```

Codeshare Link: - <https://codeshare.io/bvORN6>

Output: -

```
The Number is Even
```

4. Write a Java program to check whether a given year is a leap year.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 /*4. Write a Java program to check whether a given year is a leap year.
4 */
5
6 public class LeapYear {
7     public static void main(String[] args) {
8         //Variable Declaration and Initialization
9         int year = 2024;
10        int leap = 0;
11
12        // if year % 4,100,400 is zero then year is leap year
13        if (year % 4 == 0) {
14            if (year % 100 == 0) {
15                if (year % 400 == 0)
16                    leap = 1;
17                else
18                    leap = 0;
19            }
20            else
21                leap = 1;
22        }
23
24        else
25            leap = 0;
26        //if leap is one it is a leap year
27        if (leap==1)
28            System.out.println(year + " is a leap year.");
29        else
30            System.out.println(year + " is not a leap year.");
31    }
32 }
```

Codeshare Link: - <https://codeshare.io/DZEzOO>

Output: -

```
2024 is a leap year.
```

5. Write a Java program to print the ASCII value of a given character.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 /*5. Write a Java program to print the ASCII value
4 of a given character.*/
5
6 public class ASCIIValue {
7
8     public static void main(String[] args) {
9         //ASCII value
10        char a = 'A';
11
12        //Assigning char a to int b
13        int b = a;
14
15        //printing char as int to get ASCII value
16        System.out.println("The ASCII value of "+a+" is:"+b);
17    }
18
19 }
20
```

Codeshare Link: - <https://codeshare.io/LwE8Qg>

Output: -

```
The ASCII value of A is:65
```

6. Write a Java program to convert Celsius to Fahrenheit.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 //6. Write a Java program to convert Celsius to Fahrenheit.
4
5 public class CtoF {
6
7     public static void main(String[] args) {
8         //Variable Declaration and Initialization
9         int celsius = 38;
10        int farhenite = 0;
11
12        //Expression to Calculate to Farhenite using Celsius(Formula)
13        farhenite = celsius * (9/5) + 32;
14
15        //Printing the Output
16        System.out.println(celsius+"C = "+farhenite+"F");
17    }
18
19 }
20 }
21
```

Codeshare: - <https://codeshare.io/QnEqKw>

Output:

```
38C = 70F
```

7. Write a Java program to find the maximum of two numbers.

Code: -

```
1 package com.tecnotree.Assignment01;
2
3 //7. Write a Java program to find the maximum of two numbers
4
5 public class MaxOfTwo {
6
7     public static void main(String[] args) {
8         //Variable Declaration and Initialization
9
10        int a =10;
11        int b=20;
12
13        //Conditions to check the Max
14        if(a>b)
15            System.out.println("a is a max number");
16        else if(b>a)
17            System.out.println("b is a max number");
18        else
19            System.out.println("Both a and b are equal");
20    }
21
22 }
23
```

Codeshare: - <https://codeshare.io/X8E4Q8>

Output: -

```
terminated: MaxOfTwo.java
b is a max number
```