

Activity 3.2

Code TestMethod.java

```
public class TestMethod {
    public static int getRandomNumber() {
        return (int)((Math.random()*100)+1);
    }
    public static double getAbsoluteValue(double value) {
        if(value < 0) return -value;
        else return value;
    }
    public static int getFactorial(int n) {
        if(n > 1) return n*getFactorial(n-1);
        else return 1;
    }
    public static String getWeatherForecast() {
        String[] day = {"today", "tomorrow", "the day after tomorrow"};
        int a = (int)(Math.random()*3);
        String[] weather = {"sunny", "cloudy", "rainy", "snowy"};
        int b = (int)(Math.random()*4);
        return day[a] + " will be " + weather[b];
    }
    public static String getRandomMessage(String name) {
        String[] greet = {"Good morning ", "Good afternoon ", "Good night "};
        int c = (int)(Math.random()*3);
        return greet[c] + name;
    }
    public static boolean isEvenNumber(int value) {
        if(value%2 == 0) return true;
        else return false;
    }
    public static double getMinValue(double a, double b) {
        if(a < b) return a;
        else return b;
    }
    public static boolean isSameAbsoluteValue(int i, int j) {
        if(i==j || i== -j || -i==j) return true;
        else return false;
    }
    public static void getMessage(String name, boolean isKid) {
        if(isKid == false) System.out.println("Halo Pak " + name);
        else System.out.println("Halo Dek " + name);
    }
}
```

```

public static double getSum(double a, double b, double c) {
    return a+b+c;
}
public static double getAverage(double a, double b, double c) {
    return (a+b+c)/3;
}
public static void main(String[] args) {
    System.out.println(getRandomNumber());
    System.out.println(getAbsoluteValue(-0.398));
    System.out.println(getFactorial(6));
    System.out.println(getWeatherForecast());
    System.out.println(getRandomMessage("Aji"));
    System.out.println(isEvenNumber(5));
    System.out.println(getMinValue(3, 3));
    System.out.println(isSameAbsoluteValue(-4, 4));
    getMessage("Andre", false);
    System.out.println(getSum(0.3243, -1.8212, 100));
    System.out.println(getAverage(0.3243, -1.8212, 100));
}
}

```

Hasil:

```

PS D:\Kuliah\Semester 2\Praktikum ASD\Activity\meet3> javac *.java
PS D:\Kuliah\Semester 2\Praktikum ASD\Activity\meet3> java TestMethod
36
0.398
720
tomorrow will be cloudy
Good afternoon Aji
false
3.0
true
Halo Pak Andre
98.5031
32.83436666666667
PS D:\Kuliah\Semester 2\Praktikum ASD\Activity\meet3>

```