

PRASHNAM SHRESTHA L2 T1 SEP 2025

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*/
package com.mycompany.lab.section1;
/**
 *
 * @author prashnamshrestha
 */
public class LabSection1 {
    public static void main(String[] args) {
        // Question 1
        Biography student1 = new Biography("Prashnam", 17, 1.65, true);
        student1.info();

        // Question 2
        Swap object1 = new Swap(10, 20);
        object1.Check();
        object1.SwapValues();
        object1.Check();

        // Question 3
        int ASCII = 'A';
        System.out.println(ASCII);

    }
}

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 */
package com.mycompany.lab.section1;
/**
 *
 * @author prashnamshrestha
 */
public class Biography {
    String name;
```

```

        int age;
        double height;
        boolean student;

    public Biography(String name, int age, double height, boolean student)
{
    this.name = name;
    this.age = age;
    this.height = height;
    this.student = student;

}

    public void info() {
        System.out.println("My name is " + name + ", I am " + age + " years old. I am " + height + "m tall and it is " + student + " that im a student");
    }

}

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 */
package com.mycompany.lab.section1;
/**
 *
 * @author prashnamshrestha
 */
public class Swap {
    private int a;
    private int b;

    public Swap(int a, int b) {
        this.a = a;
        this.b = b;
    }
    public void SwapValues() {
        int temp = this.a;
        this.a = this.b;
        this.b = temp;
        System.out.println("Swapped " + a + " with " + b);
    }
}

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```
public void Check() {
    System.out.println("A: " + a + ", B: " + b);
}

}

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*/
package com.mycompany.lab.section2;
/**/
/*
* @author prashnamshrestha
*/
public class LabSection2 {
    public static void main(String[] args) {

        // Question 1
        int temp_celsius = 20;
        int temp_Fahrenheit = (temp_celsius * 9/5) + 32;

        System.out.println("Celsius: " + temp_celsius);
        System.out.println("Temp_Fahrenheit: " + temp_Fahrenheit);

        // Question 2
        Bill momoday = new Bill(1000, 6);
        momoday.calculatebill();
        momoday.addtip(30);
        momoday.calculatebill();

        // Question 3
        int seconds = 1000;
        int minutes = seconds/60;
        int hours = minutes/60;
        int day = hours/24;

        int x = 10 % 3;

        System.out.println("Second: " + seconds + ", Minutes: "
                           + minutes + " ,Hours: " + hours + " ,Day: " + day);

        // Question 4
        final double PI = 3.14159;
        double radius = 7.5;
        double areaCircle = PI*radius;
```

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        System.out.println(areaCircle);

    }

}

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 */
package com.mycompany.lab.section2;
/**
 *
 * @author prashnamshrestha
 */
public class Bill {
    int totalBill;
    int totalPerson;

    public Bill(int totalBill, int totalPerson) {
        this.totalBill = totalBill;
        this.totalPerson = totalPerson;
    }

    public void addtip(int percentage) {

        double addingValue= (double)totalBill * percentage/100;
        totalBill += addingValue;

        System.out.println("Added " + percentage + "% tip.");
    }

    public void calculatebill() {
        System.out.println("Each person gets: " + totalBill/totalPerson);
    }
}
```

```
}

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package com.mycompany.lab.section3;
/**
 *
 * @author prashnamshrestha
 */
public class LabSection3 {
    public static void main(String[] args) {

        // Question 1
        int age = 9;
        boolean voting = false;
        if (age >= 18) {
            voting = true;
        }
        System.out.println("It is " + voting + ", that age " + age + " can
vote.");

        // Question 2
        int number = 910;
        boolean even = false;
        if (number % 2 == 0) {
            even = true;
        }

        System.out.println("It is " + even + ", that " + number + " is
even.");

        // Question 3
        int grade = 90;
        boolean pass = false;
        if (grade >= 40) {
            pass = true;
        }
        System.out.println("It is " + pass + ", that grade " + grade + "
is pass");

    }
}
```

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package com.mycompany.lab.section4;
/**
 *
 * @author prashnamshrestha
 */
public class LabSection4 {
    public static void main(String[] args) {
        // Question 1
        int n = 15;
        boolean betweenTenAndTwenty = false;

        if (n > 10 && n < 20) {
            betweenTenAndTwenty = true;
        }
        System.out.println(betweenTenAndTwenty);

        // Question 2
        boolean isSaturday = true;
        boolean isSunday = false;
        boolean canSleep = false;
        if (isSaturday || isSunday) {
            canSleep = true;
        }
        System.out.println(canSleep);

        // Question 3
        int a = 5;
        int b = 10;
        int c = 15;
        boolean logic = false;
        if ( (a < b) && (b < c) || (a == 5) ) {
            logic = true;
        }
        System.out.println(logic);

    }
}
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package com.mycompany.lab.section5;
```

```
/**  
 *  
 * @author prashnamshrestha  
 */  
public class LabSection5 {  
    public static void main(String[] args) {  
        // Question 1;  
        int P = 1000;  
        int T = 4;  
        double R = 2.5;  
  
        double simpleInterest = (P * T * R) / 100;  
        double totalAmount = P + simpleInterest;  
  
        System.out.println(simpleInterest);  
        System.out.println(totalAmount);  
  
        // Question 2  
        int a = 97;  
        int b = 97;  
        boolean result = false;  
        if (a % 10 == b % 10) {  
            result = true;  
        }  
  
        System.out.println(result);  
    }  
}
```