

Lab 02

Name: Tet Davann

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✓ Lab02.1

```
import java.util.Scanner;

public class lab02_1 {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        Scanner sc=new Scanner(System.in);

        System.out.print("Input your name: ");

        String name=sc.nextLine();

        System.out.println("Hello "+name);

    }

}
```



```
<terminated> lab02_1 [Java Application] C:\Program
Input your name: Tet Davann
Hello Tet Davann
```

✓ Lab02.2

```
import java.util.Scanner;

public class Lab02_2 {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        Scanner sc=new Scanner(System.in);

        System.out.println("Program for converting money in Riels to Dollars.");

        System.out.print("Please input conversion rat of 1 dollar in Riels: ");

        float rate=sc.nextFloat();

        System.out.print("Please input money to exchange in Reils: ");

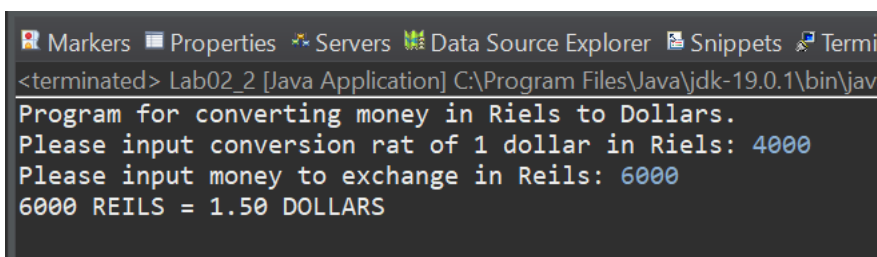
        int Reils=sc.nextInt();

        float result=Reils/rate;

        System.out.printf("%d REILS = %.2f DOLLARS",Reils,result);

    }

}
```



```
<terminated> Lab02_2 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin\jav
Program for converting money in Riels to Dollars.
Please input conversion rat of 1 dollar in Riels: 4000
Please input money to exchange in Reils: 6000
6000 REILS = 1.50 DOLLARS
```

✓ Lab02.3

```
import java.util.Scanner;

public class Lab02_3 {

    public static void main(String[] args) {

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

```

C:\Program Files\Java\jdk-19.0.1\bin>javaw.exe
==== Covid-19 Screen Health ====
Q1. Feeling feverish and/or having chills? yes
Q2. Has there been any use of fever reducing medication within the last 24 hours not due to another healthcondition? yes
Q3. A new cough that is not due to another health condition? no
Q4. New chills that are not due to another health condition? yes
Q5. A new sore throat that is not due to another health condition? no
Q6. A new loss of taste or smell? yes
Q7. Have you had a positive test for the virus that causes COVID-19 disease within the past 10 days? yes
Q8. In the past 14 days, have you had close contact (within about 6 feet for 15 minutes or more) with someone with suspected or confirmed COVID-19? no
=====
|      Questions      |      Answers      |
|=====|=====|
| Q1                  | yes                |
|-----|-----|
| Q2                  | yes                |
|-----|-----|
| Q3                  | no                 |
|-----|-----|
| Q4                  | yes                |
|-----|-----|
| Q5                  | no                 |
|-----|-----|
| Q6                  | yes                |
|-----|-----|
| Q7                  | yes                |
|-----|-----|
| Q8                  | no                 |
|-----|-----|

```

```
import java.util.Scanner;
public class Lab02_4 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.print("Input number of seconds:");
        int second = sc.nextInt();
        int hour=second/3600;
        int minute=(second%3600)/60;
        second=(second%3600)%60;
        System.out.printf("Time corresponding to 1259 seconds is:: %02d:%02d:%02d",hour,minute,second);
    }
}
```

```
<terminated> Lab02_4 [Java Application] C:\Program Files\Java\jdk-19.0.1\
Input number of seconds:12000
Time corresponding to 1259 seconds is:: 03:20:00
```

```
import java.util.Scanner;
public class Lab02_5 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        float x,y,z;
        System.out.println("Program for calculating equation  $1/x = 1/y + 1/z$  to find value of x");
        System.out.print("Please input y:");
    }
}
```

```

        y=sc.nextFloat();
        System.out.print("Please input z:");
        z=sc.nextFloat();
        x=1/((1/y)+(1/z));
        System.out.println("Result x = "+x);
    }
}

```

```

<terminated> Lab02_5 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin\javaw.exe (Jan 16, 20
Program for calculating equation 1/x = 1/y + 1/z to find value of x
Please input y:10
Please input z:7
Result x = 4.1176467

```

✓ Lab02.6

```

import java.util.Scanner;
public class Lab2_6 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        do {
            System.out.print("Input a number to check whether it is a prime number:");
            int num=sc.nextInt();
            int k=0;
            int dv=0;
            for(int i=2;i<num;i++) {
                if((num/i!=1||num/i!=num)&&num%i!=0) {
                    k++;
                }else {
                    dv=i;
                    break;
                }
            }
            if(k==num-2) {
                System.out.println(num+" is a prime number.");
            }else {
                System.out.println(num+" is not a prime number, because it is divisible by "+dv);
            }
        }while(true);
    }
}

```

```

Lab2_6 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin\javaw.exe (Jan 16, 20
Input a number to check whether it is a prime number:17
17 is a prime number.
Input a number to check whether it is a prime number:27
27 is not a prime number, because it is divisible by 3

```

✓ Lab02.7

```

import java.util.Scanner;
public class Lab02_7 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.print("Input a sentence:");
        String str=sc.nextLine();
        int countVowel=0;
        int countconsonant=0;
        int countspace=0;
        str=str.toLowerCase();
        for(int i=0;i<str.length();i++) {

```

```

        if(str.charAt(i)=='i'||str.charAt(i)=='e'||str.charAt(i)=='u'||str.charAt(i)=='o'||str.charAt(i)=='a') {
            countVowel+=1;
        }else if(str.charAt(i)==' ') {
            countspace+=1;
        }else {
            countconsonant+=1;
        }
    }

    System.out.println("Count of vowel is: "+countVowel);
    System.out.println("Count of consonant is: "+countconsonant);
    System.out.println("Count of space is: "+countspace);
}
}

```

```

Markers Properties Servers Data Source Explorer
<terminated> Lab02_7 [Java Application] C:\Program Files\
Input a sentence:Wellcome to Cambodia
Count of vowel is: 8
Count of consonant is: 10
Count of space is: 2

```

✓ Lab02.8

```

import java.util.Scanner;
public class Lab02_8 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int[] arr=new int[5];
        char[] ch= {'A','B','C','D','E'};
        for(int i=0;i<5;i++) {
            System.out.print("Input value of "+ch[i]+" : ");
            arr[i]=sc.nextInt();
        }
        int k=arr[0];
        for(int i=1;i<5;i++) {
            if(k>arr[i]) {
                k=arr[i];
            }
        }
        System.out.println("The smallest number among A, B, C, D, and E is: "+k);
    }
}

```

```

Markers Properties Servers Data Source Explorer Snippets
<terminated> Lab02_8 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin
Input value of A: 4
Input value of B: 6
Input value of C: 3
Input value of D: 9
Input value of E: 2
The smallest number among A, B, C, D, and E is: 2

```

✓ Lab02.9

```

import java.util.Scanner;
public class Lab02_9 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int[] arr=new int[5];
        char[] ch= {'A','B','C','D','E'};
        for(int i=0;i<5;i++) {

```

```

        System.out.print("Input value of "+ch[i]+" : ");
        arr[i]=sc.nextInt();
    }
    int k=arr[0];
    for(int i=1;i<5;i++) {
        if(k<arr[i]) {
            k=arr[i];
        }
    }
    System.out.println("The smallest number among A, B, C, D, and E is: "+k);
}
}

```

```

<terminated> Lab02_9 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin
Input value of A: 9
Input value of B: 3
Input value of C: 2
Input value of D: 10
Input value of E: 4
The smallest number among A, B, C, D, and E is: 10

```

✓ Lab02.10

```

import java.util.Scanner;
public class Lab02_10 {
    static void Starter() {
        Scanner sc=new Scanner(System.in);
        System.out.println("=== Math Menu ===");
        System.out.println("1. Addition (+)");
        System.out.println("2. Substruction (-)");
        System.out.println("3. Multiplication (x)");
        System.out.println("4. Division (/)");
        System.out.println("5. Quit");
        int index;
        System.out.print("Please choose an option: ");
        index=sc.nextInt();
        switch(index) {
            case 1:Add();break;
            case 2:Sub();break;
            case 3:Multi();break;
            case 4:Divide();break;
            case 5:System.out.println("Exited");break;
            default:Starter();
        }
    }
    static void Add() {
        int a,b,c;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("=== Substruction (-)===");
        System.out.print("Please input value A:");
        a=sc.nextInt();
        System.out.print("Please input value B:");
        b=sc.nextInt();
        c=a+b;
        System.out.println("Answer of A + B =" +c);
        System.out.println("Do you want to continue? If no go to Menu.");
        System.out.print("Input your answer (y/n):");
        ch=sc.next().charAt(0);
    }
}

```

```

        if(ch=='y'||ch=='Y') {
            Add();
        }else if(ch=='y'||ch=='Y') {
            System.out.println("Exited");
        }else {
            Starter();
        }
    }
    static void Sub() {
        int a,b,c;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("=== Substruction (-)===");
        System.out.print("Please input value A:");
        a=sc.nextInt();
        System.out.print("Please input value B:");
        b=sc.nextInt();
        c=a-b;
        System.out.println("Answer of A - B =" +c);
        System.out.println("Do you want to continue? If no go to Menu.");
        System.out.print("Input your answer (y/n):");
        ch=sc.next().charAt(0);
        if(ch=='y'||ch=='Y') {
            Sub();
        }else if(ch=='y'||ch=='Y') {
            System.out.println("Exited");
        }else {
            Starter();
        }
    }
    static void Multi() {
        int a,b,c;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("=== Multiplication (x)===");
        System.out.print("Please input value A:");
        a=sc.nextInt();
        System.out.print("Please input value B:");
        b=sc.nextInt();
        c=a*b;
        System.out.println("Answer of A x B =" +c);
        System.out.println("Do you want to continue? If no go to Menu.");
        System.out.print("Input your answer (y/n):");
        ch=sc.next().charAt(0);
        if(ch=='y'||ch=='Y') {
            Multi();
        }else if(ch=='y'||ch=='Y') {
            System.out.println("Exited");
        }else {
            Starter();
        }
    }
    static void Divide() {
        float a,b,c;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("=== Division (/)===");
        System.out.print("Please input value A:");
        a=sc.nextInt();
        System.out.print("Please input value B:");
        b=sc.nextInt();
        c=a/b;
    }
}

```

```

        System.out.println("Answer of A / B =" + c);
        System.out.println("Do you want to continue? If no go to Menu.");
        System.out.print("Input your answer (y/n):");
        ch = sc.next().charAt(0);
        if (ch == 'y' || ch == 'Y') {
            Divide();
        } else if (ch == 'y' || ch == 'Y') {
            System.out.println("Exited");
        } else {
            Starter();
        }
    }
    public static void main(String[] args) {
        Starter();
    }
}

```

```

Lab02_10 [Java Application] C:\Program Files\Java\jdk-19.0.1\bin
=== Math Menu ===
1. Addition (+)
2. Substruction (-)
3. Multiplication (x)
4. Division (/)
5. Quit
Please choose an option: 1
=== Substruction (-) ===
Please input value A: 25
Please input value B: 30
Answer of A + B = 55
Do you want to continue? If no go to Menu.
Input your answer (y/n): y
=== Math Menu ===
1. Addition (+)
2. Substruction (-)
3. Multiplication (x)
4. Division (/)
5. Quit
Please choose an option: 6
=== Math Menu ===
1. Addition (+)
2. Substruction (-)
3. Multiplication (x)
4. Division (/)
5. Quit
Please choose an option:

```

✓ Lab02.11

```

class IDCard{
    String name;
    int age;
    String gender;
    String Location;
    String Height;
    String Job;
}
class FacebookPost{
    String title;
    String who_Can_See;
}

```

```

        String tag;
        String []mention=new String[10];
        String photo;
    }
    class Phone{
        String name;
        String model;
        String price;
        String warrent;
        String color;
    }
    class Book{
        String title;
        String page;
        String price;
        String recomment_for;
        String type;
    }
    public class Lab02_11 {
        public static void main(String[] args) {
            //For ID Card
            IDCard card1=new IDCard();
            IDCard card2=new IDCard();
            IDCard card3=new IDCard();

            card1.name="Tet Davann";
            card1.age=25;
            card1.gender="Male";
            card1.Height="170cm";
            card1.Job="Student";
            card1.Location="Phnom Penh";

            card2.name="Super Man";
            card2.age=35;
            card2.gender="Female";
            card2.Height="190cm";
            card2.Job="Flighter";
            card2.Location="Kandal";

            card3.name="Jonh Sina";
            card3.age=25;
            card3.gender="Female";
            card3.Height="185cm";
            card3.Job="Sports";
            card3.Location="Takeov";

            IDCard[] card=new IDCard[3];
            card[0]=card1;
            card[1]=card2;
            card[2]=card3;
            //Finish

            //For Facebook Post
            FacebookPost post1=new FacebookPost();
            FacebookPost post2=new FacebookPost();
            FacebookPost post3=new FacebookPost();

            post1.title="What is color of light of sun?";
            post1.tag="DAVANN";
            post1.mention[0]="Davann";
            post1.mention[1]="Biden";
            post1.mention[2]="Trump";

```



```
post1.who_Can_See="Friends";
post1.photo="photo1.png";

post2.title="Why sea water is salty?";
post2.tag="DAVANN";
post2.mention[0]="Putin";
post2.mention[1]="Kimjongoun";
post2.mention[2]="Xij Jinping";
post2.who_Can_See="Friend of Friend";
post2.photo="photo2.png";

post3.title="How to sucess?";
post3.tag="DAVANN";
post3.mention[0]="Bill Gate";
post3.mention[1]="Lilon Mass";
post3.mention[2]="Zackburg";
post3.who_Can_See="Friends";
post3.photo="photo3.png";

FacebookPost[] post=new FacebookPost[3];
post[0]=post1;
post[1]=post2;
post[2]=post3;
//Finish
```

//For Phone

```
Phone phone1=new Phone();
Phone phone2=new Phone();
Phone phone3=new Phone();

phone1.name="Samsung";
phone1.model="J6+";
phone1.price="399.99$";
phone1.warrent="2year";
phone1.color="black";

phone2.name="Iphone";
phone2.model="14 pro max";
phone2.price="1799.99$";
phone2.warrent="3 month";
phone2.color="gold";

phone3.name="Samsung";
phone3.model="Galaxy Tab";
phone3.price="799.99$";
phone3.warrent="1year";
phone3.color="grey";

Phone[] phone=new Phone[3];
phone[0]=phone1;
phone[1]=phone2;
phone[2]=phone3;
//finish
```

//For Book

```
Book book1=new Book();
Book book2=new Book();
Book book3=new Book();

book1.title="The Great";
book1.page="250 page";
book1.price="5$";
```

```
book1.recomment_for="Student";  
book1.type="Education";
```

```
book2.title="Tom and Jerry";  
book2.page="350 page";  
book2.price="25$";  
book2.recomment_for="Children";  
book2.type="toy";
```

```
book3.title="Joav Jit";  
book3.page="120 page";  
book3.price="2.5$";  
book3.recomment_for="Student";  
book3.type="Novel";
```

```
Book[] book=new Book[3];  
book[0]=book1;  
book[1]=book2;  
book[2]=book3;  
//finish
```

```
}
```

```
}
```