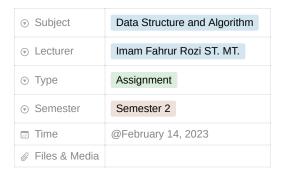
Task 1



Jobsheet 1

questions 1

1. code

```
import java.util.Scanner;
public class Main
    static Scanner input = new Scanner(System.in);
    static void finalscore(int a, int m, int f)
       double average = ((0.2*a) + (0.35*m) + (0.45*f));
        System.out.println("Nilai Akhir: " + average);
       if(average > 50)
           if (average > 80)
               System.out.println("Nilai Huruf: A");
           else if (average > 73)
               System.out.println("Nilai Huruf: B+");
           else if (average > 65)
               System.out.println("Nilai Huruf: B");
           else if (average > 60)
               System.out.println("Nilai Huruf: C+");
           }
           else
               {\tt System.out.println("Nilai\ Huruf:\ C");}
           System.out.println("======");
           System.out.println("Selamat Lulus!");
       else
           if (average > 39)
               System.out.println("Nilai Huruf: D");
           {
               System.out.println("Nilai Huruf: E");
           System.out.println("======"");
           System.out.println("NT Masbro! Try Again Later!");
   }
   static int limited(String message)
       while (true)
```

Task 1

```
{
    System.out.print(message);
    int userInput = input.nextInt();
    input.nextLine();
    if (userInput > 0 && userInput <= 100)
    {
        return userInput;
    }
    System.out.println("Nilai Tugas tidak bisa < 0 atau > 100!");
}

public static void main(String[] args)
{

    System.out.println("Program Menghitung Nilai Akhir");
    System.out.println("Program Menghitung Nilai Akhir");
    int assignment = Integer.parseInt(String.format("%d", limited("Masukkan Nilai Tugas: ")));
    int midterm = Integer.parseInt(String.format("%d", limited("Masukkan Nilai UTS: ")));
    int finalsc = Integer.parseInt(String.format("%d", limited("Masukkan Nilai UAS: ")));
    System.out.println("==============");
    finalscore(assignment, midterm, finalsc);
}
```

questions 2

1. code

```
import java.util.Scanner;
public class Main
    static Scanner input = new Scanner(System.in);
    public static void main(String[] args)
        System.out.print("Input NIM: ");
        String NIM = input.nextLine();
        int \ last2 digit = Integer.parseInt(String.format("%c%c", NIM.charAt(NIM.length()-2), NIM.charAt(NIM.length()-1))); \\
        int iteration = 1;
        int day = iteration;
        for (iteration = 1; iteration <= last2digit; iteration++)</pre>
            if (day == 1)
            {
                System.out.println("Monday");
            }
            else if (day == 2)
            {
                System.out.println("Tuesday");
            else if (day == 3)
            {
                System.out.println("Wednesday");
            }
            else if (day == 4)
                System.out.println("Thursday");
            else if (day == 5)
                System.out.println("Friday");
```

Task 1 2

Input NIM: 2241720123 Monday Tuesday Wednesday Thursday Friday Saturday Monday Monday Tuesday Wednesday Thursday Friday Saturday Monday Monday Tuesday Wednesday Thursday Friday Saturday Monday Monday Tuesday

questions 3

1. code

Task 1

```
Stock of Branch 1: 37
Stock of Branch 2: 38
Stock of Branch 3: 27
Stock of Branch 4: 33
```

2. code

New information, some stocks on RoyalGarden 1 are decreased Therefore RoyalGarden 1 income are decreased from 1350000 become 875000

questions 4

1. code

```
public class Main {
    static void fibonacciLoop()
    {
        int n1 = 0, n2 = 1, n3, i, count = 9;
        System.out.print(n1+" "+n2);
        for(i = 2; i < count; i++)
        {
            n3 = n1 + n2;
            System.out.print(" "+n3);
            n1 = n2;
            n2 = n3;
        }
    }
    public static void main(String[] args) {
        fibonacciLoop();
    }
}</pre>
```

0 1 1 2 3 5 8 13 21

2. code

```
public class Main
{
    static int n1 = 0, n2 = 1, n3 = 0;
    static void recursiveFibonacci(int count)
    {
        if(count > 0)
        {
            n3 = n1 + n2;
        }
}
```

Task 1

```
n1 = n2;
    n2 = n3;
    System.out.print(" " + n3);
    recursiveFibonacci(count - 1);
    }
    public static void main(String args[]) {
        int count = 9;
        System.out.print(n1 + " " + n2);
        recursiveFibonacci(count - 2);
    }
}
```

0 1 1 2 3 5 8 13 21

assignment

1. code

```
public class Assignment1
{
    static int cost = 4_500;
    static double discount = 0.05;
    static int[] customer = {4, 15, 6, 11};
    public static void main(String[] args)
    {
        int total = 0;
        for (int weight : customer)
        {
            total += weight > 10 ? (weight*cost)*discount : weight*cost;
        }
        System.out.println("Total income is " + total);
    }
}
```

Total income is 50850

2. code

```
import java.util.Scanner;
public class Assignment2
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        double save = 1_000_000;
        System.out.print("input number of month: ");
        int month = sc.nextInt();
        double total = 0;
        for (int i = 0; i <= month; i++)
        {
            total = save + ((save * 0.02) * i);
        }
        System.out.println("Total saves after " + month + " month is " + total);
    }
}</pre>
```

input number of month: 25 Total saves after 25 month is 1500000.0

so customer balance will reach 1.5 million after 25 months

3. code

```
import java.util.Scanner;
public class Assignment3
```

Task 1 5

Input the n number: 5 2 6 10 14 18

4. code

```
import java.util.Scanner;
public class Assignment4
    static Scanner sc = new Scanner(System.in);
    public static double area;
    public static void areaOfTriangle()
        System.out.print("Input Height: ");
        int height = sc.nextInt();
        System.out.print("Input Side: ");
        int side = sc.nextInt();
        area = 1.0/2*height*side;
        System.out.println("Area of Triangle is: " + area + "\n");\\
    }
    public static void areaOfRectangle()
        System.out.print("Input Height: ");
        int height = sc.nextInt();
        System.out.print("Input Width: ");
        int width = sc.nextInt();
        area = height*width;
        System.out.println("Area of Rectangle is: " + area + "\n");
    }
    public static void areaOfCircle()
        System.out.print("Input Radius: ");
        int r = sc.nextInt();
        area = Math.PI*r*r;
        System.out.print("Area of Circle is: " + area + "\n");
    }
    public static void main(String[] args)
        int menu = 0;
        do
        {
            System.out.println("Select Menu: ");
System.out.println("1. Area of Triangle");
            System.out.println("2. Area of Rectangle");
            System.out.println("3. Area of Circle");
            System.out.println("0. Exit");
            menu = sc.nextInt();
            switch (menu)
                case 1:
                    areaOfTriangle();
                    break;
                case 2:
                    areaOfRectangle();
```

Task 1 6

```
Select Menu:
1. Area of Triangle
2. Area of Rectangle
3. Area of Circle
0. Exit
Input Height: 5
Input Side: 4
Area of Triangle is: 10.0
Select Menu:
1. Area of Triangle
2. Area of Rectangle
3. Area of Circle
0. Exit
Input Height: 5
Input Width: 4
Area of Rectangle is: 20.0
Select Menu:
1. Area of Triangle
2. Area of Rectangle
3. Area of Circle
0. Exit
3
Input Radius: 7
Area of Circle is: 153.93804002589985
Select Menu:
1. Area of Triangle
2. Area of Rectangle
3. Area of Circle
0. Exit
```

Task 1 7

Process finished with exit code 0