Nama: Fauzan Abdurrahman

NPM: 1842445

Jawaban Soal no 1

Main.java

```
package stmikamikbdg.uts1;
public class Main {
    public static void main(String[] args) {
        for (int x = 1; x <= 100; x++) {
            if (x % 3 == 0 && x % 7 != 0) {
                 System.out.println(x + ". Belajar");
            } else if (x % 7 == 0 && x % 3 != 0) {
                  System.out.println(x + ". Java");
            } else if (x % 3 == 0 && x % 7 == 0) {
                  System.out.println(x + ". Belajar java menyenangkan");
            } else {
                  System.out.println(x + ". -");
            }
        }
    }
}</pre>
```

Jawaban Soal no 2

BangunRuang.java

```
package stmikamikbdg.uts2;

/**
    * @author Fauzan Abdurrahman
    */
public abstract class BangunRuang {
    public abstract double hitungLuasPermukaan();
    public abstract double hitungVolume();
}
```

```
package stmikamikbdg.uts2;
import java.util.Scanner;
public class Main {
   public static void main(String[] args) {
       Scanner input = new Scanner(System.in);
       int n;
       Kubus c = new Kubus();
       Bola b = new Bola();
       Kerucut cn = new Kerucut();
       System.out.println("Program menghitung Luas permukaan dan Volume Bangun Ruang");
           System.out.println("=======");
           System.out.println("Pilih (pilih 0 untuk keluar) : ");
           System.out.println("1. Kubus");
           System.out.println("2. Bola");
           System.out.println("3. Kerucut");
           System.out.print("Pilihan anda : ");
           n = input.nextInt();
           switch(n) {
               case 1:
                    System.out.print("\nMasukkan nilai sisi : ");
                   double s = input.nextDouble();
                   c.setSisi(s);
                    System.out.println("Nilai luas permukaan dan volume Kubus dengan sisi "+ s +" cm
                    adalah: ");
                    System.out.println("Luas Permukaan Kubus : " + c.hitungLuasPermukaan() + "cm
                    System.out.println("Luas Volume Kubus : " + c.hitungVolume()+ "cm kubik");
                    System.out.println("");
               break;
               case 2:
                    System.out.print("\nMasukkan nilai jari-jari : ");
                   double r = input.nextDouble();
                   b.setRadius(r);
                    System.out.println("Nilai luas permukaan dan volume Bola dengan jari-jari "+ r +"
                    cm adalah: ");
                    System.out.println("Luas Permukaan Bola : " + Math.round(b.hitungLuasPermukaan()) +
                    "cm kuadrat");
                    System.out.println("Luas Volume Bola : " + Math.round(b.hitungVolume()) + "cm
                    kubik");
                   System.out.println("");
               break;
               case 3:
                   System.out.print("\nMasukkan nilai jari-jari : ");
                   double rd = input.nextDouble();
                    cn.setR(rd);
                    System.out.print("Masukkan nilai tinggi : ");
                    double h = input.nextDouble();
                   cn.setH(h);
                    System.out.println("Nilai luas permukaan dan volume Kerucut dengan jari-jari "+ rd
                    +" cm, dan dengan tinggi "+ h +" cm adalah: ");
                    System.out.println("Luas Permukaan Kerucut : " +
                    Math.round(cn.hitungLuasPermukaan()) + "cm kuadrat");
                    System.out.println("Luas Volume Kerucut : " + Math.round(cn.hitungVolume()) + "cm
                    kubik");
```

Kubus.java

```
package stmikamikbdg.uts2;
public class Kubus extends BangunRuang{
    double s;
    public Kubus(double s) {
        this.s = s;
    public Kubus() {}
    public void setSisi(double s) {
        this.s = s;
    }
    @Override
    public double hitungLuasPermukaan() {
        return 6 * (s * s);
    @Override
    public double hitungVolume() {
        return s * s * s;
    }
```

Bola.java

```
package stmikamikbdg.uts2;
public class Bola extends BangunRuang{
    double r;
    public Bola(double r) {
        this.r = r;
    public Bola() {
    }
    public void setRadius(double r) {
        this.r = r;
    }
    @Override
    public double hitungLuasPermukaan() {
        return (Math.PI * 4) * Math.pow(r, 2);
    }
    @Override
    public double hitungVolume() {
        return (4.0 / 3.0) * Math.PI * Math.pow(r, 3);
    }
```

Kerucut.java

```
package stmikamikbdg.uts2;
public class Kerucut extends BangunRuang{
    double h = 0;
    double r = 0;
    public Kerucut () {}
    public Kerucut(double r, double h) {
        this.h = h;
        this.r = r;
    }
    public void setH(double h) {
        this.h = h;
    public void setR(double r) {
        this.r = r;
    @Override
    public double hitungLuasPermukaan() {
        return Math.PI * r * (r + Math.sqrt(h * h + r * r));
    }
    @Override
    public double hitungVolume() {
        return (1.0 / 3.0) * (Math.PI * r * r * h);
}
```