

Lab03-2 – Main.java

FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelp

Lab03-2srcMain.java

Project

Lab03-2~/PSU/s4/977-21

src

Main.java

Cube

Cylinder

Main

External Libraries

10int area = 6 \* edge \* edge;

11return area;

12}

13public int calculateVolume() {

14int vol = edge \* edge \* edge;

15return vol;

16}

17}

18

19class Cylinder {

20public int radius;

21public int height;

22Cylinder() {}

23Cylinder(int radius, int height) {

24this.radius = radius;

25this.height = height;

26}

27public double calculateArea() {

28double area = 2 \* 3.14 \* radius \* height + 2 \* 3.14 \* radius \* radius;

29return area;

30}

31public double calculateVolume() {

32double vol = 3.14 \* radius \* radius \* height;

33return vol;

34}

35}

36

37public class Main {

38public static void main(String[] args) {

39Cube cube1 = new Cube( edge: 5);

40System.out.println("Area: " + cube1.calculateArea());

41System.out.println("Volume: " + cube1.calculateVolume());

42Scanner input = new Scanner(System.in);

43System.out.print("Enter cylinder radius: ");

44int cr = input.nextInt();

45System.out.print("Enter cylinder height: ");

46int ch = input.nextInt();

47Cylinder cyl1 = new Cylinder(cr, ch);

48System.out.println("Area: " + cyl1.calculateArea());

49System.out.println("Volume: " + cyl1.calculateVolume());

50}

Run: Main

/opt/intellij-idea-ultimate-edition/jbr/bin/java -javaagent:/c

Area: 150

Volume: 125

Enter cylinder radius: 5

Enter cylinder height: 6

Area: 345.4

Volume: 471.0

Process finished with exit code 0

Version Control

TODO

Problems

Terminal

Profiler

Services

Build

Build completed successfully in 1 sec, 318 ms (a minute ago)

18:1LFUTF-82 spaces



Lab03-3 – Main.java

FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelp

Lab03-3 > src > Main.java > Employee > Employee

Main.java x

10this.id = id;

11this.name = name;

12this.position = position;

13this.salary = salary;

14this.taxRate = taxRate;

15}

16public void getEmployeeDetail() {

17System.out.println("=====");

18System.out.println("ID \t NAME \t Position");

19System.out.println(id + " \t " + name + " \t " + position);

20System.out.println("=====");

21}

22public void calculateTax() {

23double tax = salary \* taxRate / 100;

24double salaryNet = salary - tax;

25System.out.println("Salary: " + salary);

26System.out.println("Tax " + taxRate + "%:" + tax);

27System.out.println("Net salary: " + salaryNet);

28System.out.println("=====");

29}

30}

31public class Main {

32public static void main(String[] args) {

33System.out.println("\*\*\*\* Payroll System \*\*\*\*");

34System.out.println("Enter employee detail");

35Scanner input = new Scanner(System.in);

36System.out.print("id: ");

37int id = input.nextInt();

38input.nextLine(); // nextInt() does not consume the '\n'. Need to do it manually.

39System.out.print("name: ");

40String name = input.nextLine();

41System.out.print("position: ");

42String position = input.nextLine();

43System.out.print("salary: ");

44double salary = input.nextDouble();

45System.out.print("Enter tax rate(%): ");

46double tax = input.nextDouble();

47input.close();

48Employee emp1 = new Employee(id, name, position, salary, tax);

49emp1.getEmployeeDetail();

50emp1.calculateTax();

Run: Main x

/opt/intellij-idea-ultimate-edition/jbr/bin/java -javaagent:/opt/intellij-idea-ultimate-edition/bin/javaagent.jar -jar /opt/intellij-idea-ultimate-edition/bin/javaagent.jar

\*\*\*\* Payroll System \*\*\*\*

Enter employee detail

id: 426

name: Testname

position: Testposition

salary: 50000

Enter tax rate(%): 10

=====

IDNAMEPosition

426TestnameTestposition

=====

Salary: 50000.0

Tax 10.0%:5000.0

Net salary: 45000.0

=====

Process finished with exit code 0

Version Control

TODO

Problems

Terminal

Services

Profiler

Build

Build completed successfully in 1 sec, 328 ms (moments ago)

19:1LFUTF-82 spaces