Q1.

import java.util.Scanner;

class Box{

int depth, length, breadth, km;

float costperkm;

Scanner sc = new Scanner(System.in);

Box(){

System.out.print("Enter depth, length and breadth : ");

depth = sc.nextInt();

length = sc.nextInt();

breadth = sc.nextInt();

System.out.println();

System.out.print("Enter km to travel : ");

km = sc.nextInt();

System.out.println();

System.out.print("Enter per km price : ");

costperkm = sc.nextFloat();

}

}

class Boxweight extends Box{

void totalCost(){

System.out.println("Total Cost : " + (km \* (length\*breadth\*depth)\*costperkm));

}

}

public class E6Q1 {

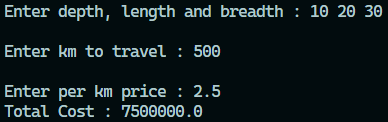
public static void main(String[] args) {

Boxweight bxwgt = new Boxweight();

bxwgt.totalCost();

}

}



Q2.

import java.util.Scanner;

class E6Q2{

void mul(int a, int b){

System.out.println("Method for Two numbers called- (Result) - " + a\*b);

}

void mul(int a, int b, int c){

System.out.println("Method for Three numbers called- (Result) - " + a\*b\*c);

}

void mul(int[] values, int nItem){

int a = 1;

for(int i = 0; i<nItem; i++){

a = a\*values[i];

}

System.out.println("Method for Multiple numbers called- (Result) - " + a);

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

boolean t = true;

int n = 100;

int[] values = new int[n];

int x = 0;

int nItem = 0;

while(t){

System.out.print("Enter the number (Press \* to stop): ");

String data = sc.next();

if(data.equals("\*")){

t = false;

}

else{

values[x] = Integer.parseInt(data);

x++;

nItem+=1;

}

}

E6Q2 user = new E6Q2();

if(nItem == 2){

user.mul(values[0], values[1]);

}

if(nItem == 3){

user.mul(values[0], values[1], values[2]);

}

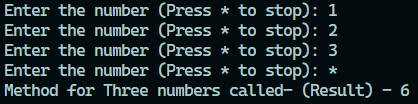
if(nItem > 3){

user.mul(values, nItem);

}

}

}



Q3.

class Shape {

public double findArea() {

return 0; // Default implementation, overridden by subclasses

}

}

class Square extends Shape {

private double side;

public Square(double side) {

this.side = side;

}

@Override

public double findArea() {

return side \* side;

}

}

class Rectangle extends Shape {

private double length;

private double width;

public Rectangle(double length, double width) {

this.length = length;

this.width = width;

}

// @Override

public double findArea() {

return length \* width;

}

}

public class E6Q3 {

public static void main(String[] args) {

Square square = new Square(5);

Rectangle rectangle = new Rectangle(4, 6);

System.out.println("Area of square: " + square.findArea());

System.out.println("Area of rectangle: " + rectangle.findArea());

}

}



Q4.

interface Car {

public String carname = "";

public int price = 0;

public abstract void start();

public abstract void stop();

public abstract void running();

}

class Toyota implements Car{

String carname = "Toyota";

int price = 1000000;

public void start(){

System.out.println("Toyota has started.");

}

public void stop(){

System.out.println("Toyota has stopped.");

}

public void running(){

System.out.println("Toyota is running.");

}

}

public class E6Q4 {

public static void main(String[] args) {

Toyota car = new Toyota();

System.out.println("Car name : " + car.carname);

System.out.println("Car price : " + car.price);

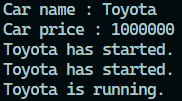
car.start();

car.start();

car.running();

}

}



Q6.

class Shape{

void about(){

System.out.println("Shape method is called.");

}

}

class Circle extends Shape{

void about(){

System.out.println("Circle class method is called.");

}

}

public class E6Q5 {

public static void main(String[] args) {

Shape s = new Circle();

s.about();

}

}

