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import java.util.Scanner;

class Advertisement {

protected int advertisementid;

protected String priority;

protected int noOfDays;

protected String clientName;

public Advertisement(int advertisementid, String priority, int noOfDays, String clientName) {

this.advertisementid = advertisementid;

this.priority = priority;

this.noOfDays = noOfDays;

this.clientName = clientName;

}

public void set\_advertisementid(int advertisementid) {

this.advertisementid = advertisementid;

}

public void set\_priority(String priority) {

this.priority = priority;

}

public void set\_noOfDays(int noOfDays) {

this.noOfDays = noOfDays;

}

public void set\_clientName(String clientName) {

this.clientName = clientName;

}

public int get\_advertisementid() {

return this.advertisementid;

}

public String get\_priority() {

return this.priority;

}

public int get\_noOfDays() {

return this.noOfDays;

}

public String get\_clientName() {

return this.clientName;

}

public abstract float calculateAdevertisementCharge(float baseCost);

}

class VideoAdvertisement extends Advertisement{

private int duration;

public VideoAdvertisement(int advertisementid, String priority, int noOfDays, String clientName, int duration) {

this.advertisementid = advertisementid;

this.priority = priority;

this.noOfDays = noOfDays;

this.clientName = clientName;

this.duration = duration;

}

public void set\_duration(int duration) {

this.duration = duration;

}

public int get\_duration() {

return this.duration;

}

public float calculateAdevertisementCharge(float baseCost){

float baseAdvertisementCost = baseCost\*this.duration\*this.noOfDays;

float advertisementCharge;

if(this.priority=="high"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*10)/100 + 1000;

}else if(this.priority=="medium"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*7)/100 + 700;

}else{

advertisementCharge = baseAdvertisementCost + 200;

}

return advertisementCharge;

}

}

class ImageAdvertisement extends Advertisement{

private int inches;

public ImageAdvertisement(int advertisementid, String priority, int noOfDays, String clientName, int inches) {

this.advertisementid = advertisementid;

this.priority = priority;

this.noOfDays = noOfDays;

this.clientName = clientName;

this.inches = inches;

}

public void set\_inches(int inches) {

this.inches = inches;

}

public int get\_inches() {

return this.inches;

}

public float calculateAdevertisementCharge(float baseCost){

float baseAdvertisementCost = baseCost\*this.inches\*this.noOfDays;

float advertisementCharge;

if(this.priority=="high"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*10)/100 + 1000;

}else if(this.priority=="medium"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*7)/100 + 700;

}else{

advertisementCharge = baseAdvertisementCost + 200;

}

return advertisementCharge;

}

}

class TextAdvertisement extends Advertisement{

private int noOfCharacters;

public TextAdvertisement(int advertisementid, String priority, int noOfDays, String clientName, int noOfCharacters) {

this.advertisementid = advertisementid;

this.priority = priority;

this.noOfDays = noOfDays;

this.clientName = clientName;

this.noOfCharacters = noOfCharacters;

}

public void set\_noOfCharacters(int noOfCharacters) {

this.noOfCharacters = noOfCharacters;

}

public int get\_noOfCharacters() {

return this.noOfCharacters;

}

public float calculateAdevertisementCharge(float baseCost){

float baseAdvertisementCost = baseCost\*this.noOfCharacters\*this.noOfDays;

float advertisementCharge;

if(this.priority=="high"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*10)/100 + 1000;

}else if(this.priority=="medium"){

advertisementCharge = baseAdvertisementCost + (baseAdvertisementCost\*7)/100 + 700;

}else{

advertisementCharge = baseAdvertisementCost + 200;

}

return advertisementCharge;

}

}

public class Main{

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the advertisement id");

int advertisementid = sc.nextInt();

System.out.println("Enter the priority (high/medium/low)");

String priority = sc.next();

System.out.println("Enter the number of days");

int noOfDays = sc.nextInt();

System.out.println("Enter the client name");

String clientName = sc.next();

System.out.println("Enter the advertisement type");

String type = sc.next();

if(type=="video"){

System.out.println("Enter the duration");

int duration = sc.nextInt();

System.out.println("Enter the base cost");

float baseCost = sc.nextInt();

VideoAdvertisement adv = new VideoAdvertisement(advertisementid, priority, noOfDays, clientName, duration);

System.out.println(adv.calculateAdevertisementCharge(baseCost));

}else if(type=="image"){

System.out.println("Enter the inches");

int inches = sc.nextInt();

System.out.println("Enter the base cost");

float baseCost = sc.nextInt();

ImageAdvertisement adv = new ImageAdvertisement(advertisementid, priority, noOfDays, clientName, inches);

System.out.println(adv.calculateAdevertisementCharge(baseCost));

}else if(type=="text"){

System.out.println("Enter the noofcharacters");

int noofcharacters = sc.nextInt();

System.out.println("Enter the base cost");

float baseCost = sc.nextInt();

TextAdvertisement adv = new TextAdvertisement(advertisementid, priority, noOfDays, clientName, noofcharacters);

System.out.println(adv.calculateAdevertisementCharge(baseCost));

}

}

}