```
public abstract class Advertisement {

	protected int advertisementId;
	protected String priority;
	protected int noOfDays;
	protected String clientName;

	public void setAdvertisementId(int advertisementId) {
		this.advertisementId = advertisementId;
	}

	public int getAdvertisementId() {
		return advertisementId;
	}

	public void setPriority(String priority) {
		this.priority = priority;
	}

	public String getPriority() {
		return priority;
	}

	public void setNoOfDays(int noOfDays) {
		this.noOfDays = noOfDays;
	}

	public int getNoOfDays() {
		return noOfDays;
	}

	public void setClientName(String clientName) {
		this.clientName = clientName;
	}

	public String getClientName() {
		return clientName;
	}

	public Advertisement(int advertisementId, String priority, int
noOfDays, String clientName) {
		this.advertisementId = advertisementId;
		this.priority = priority;
		this.noOfDays = noOfDays;
		this.clientName = clientName;
	}

	public abstract float calculateAdvertisementCharge(float baseCost);

}
```

```
import java.util.*;
```

```
public class BonBon {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);

		System.out.println("Enter the advertisement id");
		int id = sc.nextInt();

		System.out.println("Enter the priority(high, medium, low)");
		String priority = sc.next();

		System.out.println("Enter the no of days advertisement is
published");
		int num = sc.nextInt();


		System.out.println("Enter the client name");
		String name = sc.nextLine();
		sc.nextLine();

		System.out.println("Enter the type of Advertisement
(video/image/text)");
		String type = sc.next();

		if(type.equalsIgnoreCase("video")) {
			System.out.println("Enter the duration in minutes");
			int min = sc.nextInt();
			VideoAdvertisement obj = new VideoAdvertisement(id,
priority, num, name, min);
			System.out.println("Enter the base cost");
			float base = sc.nextFloat();
			System.out.println("The Advertisement cost is " +
obj.calculateAdvertisementCharge(base));
		}
		else if(type.equalsIgnoreCase("image")) {
			System.out.println("Enter the number of inches");
			int inc = sc.nextInt();
			VideoAdvertisement obj = new VideoAdvertisement(id,
priority, num, name, inc);
			System.out.println("Enter the base cost");
			float base1 = sc.nextFloat();
			System.out.println("The Advertisement cost is " +
obj.calculateAdvertisementCharge(base1));
		}
		else if(type.equalsIgnoreCase("text")) {
			System.out.println("Enter the number of characters");
			int text = sc.nextInt();
			VideoAdvertisement obj = new VideoAdvertisement(id,
priority, num, name, text);
			System.out.println("Enter the base cost");
			float base2 = sc.nextFloat();
			System.out.println("The Advertisement cost is " +
obj.calculateAdvertisementCharge(base2));
		}
	}
}
```

```
public class ImageAdvertisement extends Advertisement {

	private int inches;


	public void setInches(int inches) {
		this.inches = inches;
	}

	public int getInches() {
		return inches;
	}

	public ImageAdvertisement(int advertisementId, String priority, int
noOfDays, String clientName, int inches) {
		super(advertisementId, priority, noOfDays, clientName);
		this.inches = inches;
	}

	public float calculateAdvertisementCharge(float baseCost) {
		float baseAdvertisementCost;
		baseAdvertisementCost = baseCost * inches * noOfDays;
		float boosterCost = 0;
		float serviceCost = 0;
		if(priority.equals("high")) {
			boosterCost = (float) (0.1 * baseAdvertisementCost);
			serviceCost = 1000;
		}
		else if(priority.equals("medium")) {
			boosterCost = (float) (0.0 * baseAdvertisementCost);
			serviceCost = 700;
		}
		else if(priority.equals("low")) {
			boosterCost = 0;
			serviceCost = 200;
		}
		return baseAdvertisementCost + boosterCost + serviceCost;

	}
}
```

```
public class TextAdvertisement extends Advertisement{

private int noOfCharacters;
```

```
	public void setNoOfCharacters(int noOfCharacters) {
		this.noOfCharacters = noOfCharacters;
	}

	public int getNoOfCharacters() {
		return noOfCharacters;
	}

	public TextAdvertisement(int advertisementId, String priority, int
noOfDays, String clientName, int noOfCharacters) {
		super(advertisementId, priority, noOfDays, clientName);
		this.noOfCharacters = noOfCharacters;
	}

	public float calculateAdvertisementCharge(float baseCost) {
		float baseAdvertisementCost;
		baseAdvertisementCost = baseCost * noOfCharacters * noOfDays;
		float boosterCost = 0;
		float serviceCost = 0;
		if(priority.equals("high")) {
			boosterCost = (float) (0.1 * baseAdvertisementCost);
			serviceCost = 1000;
		}
		else if(priority.equals("medium")) {
			boosterCost = (float) (0.0 * baseAdvertisementCost);
			serviceCost = 700;
		}
		else if(priority.equals("low")) {
			boosterCost = 0;
			serviceCost = 200;
		}
		return baseAdvertisementCost + boosterCost + serviceCost;

	}
}
```

```
public class VideoAdvertisement extends Advertisement{

	private int duration;

	public void setDuration(int duration) {
		this.duration = duration;
	}

	public int getDuration() {
		return duration;
	}
```

```
	public VideoAdvertisement(int advertisementId, String priority, int
noOfDays, String clientName, int duration) {
		super(advertisementId, priority, noOfDays, clientName);
		this.duration = duration;
	}

	public float calculateAdvertisementCharge(float baseCost) {
		float baseAdvertisementCost;
		baseAdvertisementCost = baseCost * duration * noOfDays;
		float boosterCost = 0;
		float serviceCost = 0;
		if(priority.equals("high")) {
			boosterCost = (float) (0.1 * baseAdvertisementCost);
			serviceCost = 1000;
		}
		else if(priority.equals("medium")) {
			boosterCost = (float) (0.07 * baseAdvertisementCost);
			serviceCost = 700;
		}
		else if(priority.equals("low")) {
			boosterCost = 0;
			serviceCost = 200;
		}
		return baseAdvertisementCost + boosterCost + serviceCost;
	}

}
```