```
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;
}
```