

## Great Beginnings(---RETIRED---)

**Grade settings:** Maximum grade: 100

**Disable external file upload, paste and drop external content:** Yes

**Based on:** [Great Beginnings\(---RETIRED---\)](#)

**Run:** Yes **Evaluate:** Yes

**Automatic grade:** Yes

"Great Beginnings" is a well-known event management company in the city. They wanted to give their customers discounts based on the type of event. The Manager of "Great Beginnings" seeks assistance from a software developer for this process. You are the software developer, and you are developing a Java program in accordance with the specifications.

### Component Specification: Event

Type (Class)	Attributes	Methods
<b>Event</b>	String eventId  String eventType  Date dateOfRegistration  Date dateOfEvent  double payment	Necessary getters, setters, and a five-argument constructor  is provided as a part of the code skeleton.

**Functional Requirement 1: Extract the details of the Event and create an object for Event class.**

Type (Class)	Methods	Responsibilities
<b>UserInterface</b>	public static Event <b>extractDetails</b> (String eventDetails)	This method accepts eventDetails separated by the colon as an argument and extracts the properties of the Event from the argument. Set these values to the Event object and return this object.  <b>Condition:</b>

		Use date format (dd/MM/yyyy).
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## Functional Requirement 2: Calculate the amount to be paid by the customer for the Event.

Type (Class)	Methods	Responsibilities
<b>Event</b>	public double <b>calculateAmountToBePaid()</b>	<p>This method is used to calculate the amount to be paid by the customer.</p> <p>If the eventType is <b>Weddings</b>, the discount percentage is <b>12%</b>.</p> <p>If the eventType is <b>Charity</b>, the discount percentage is <b>9%</b>.</p> <p>If the eventType is <b>ProductLaunch</b> the discount percentage is <b>15%</b>.</p> <p>If the eventType is <b>Exhibitions</b>, the discount percentage is <b>5%</b>.</p> <p>If the eventType is <b>Workshops</b>, the discount percentage is <b>7%</b>.</p> <p><b>Condition:</b></p> <ul style="list-style-type: none"> <li>• <i>eventType</i> is case-insensitive.</li> <li>• If the <i>eventType</i> doesn't match any of the above-mentioned eventType, the method should return -1.</li> <li>• If the <i>payment</i> is less than or equal to zero, the method should return -1.</li> </ul>

**Formula to calculate the amount to be paid:**

**Amount to be paid = payment - (payment \* discountPercentage (based on the eventType)/100 )**

**For Example:**

If eventType = Exhibitions, and payment = 75000,

Amount to be paid = 75000 - (75000 \* 5 /100) = 71250.0

**The main method in the UserInterface class is excluded from the evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.**

**Note:**

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question.
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

**Sample Input / Output 1:**

Enter Event Details

**EVENT7627:Weddings:13/02/2021:04/04/2022:90000**

Event Id : EVENT7627

Event Type : Weddings

Date Of Registration : 13/02/2021

Date Of Event : 04/04/2022

Payment : 90000.0

Amount to be paid by the Customer : 79200.00

**Sample Input / Output 2:**

Enter Event Details

**EVENT293:Birthday:05/09/2021:09/11/2022:8000**

Invalid Event Details

### Sample Input / Output 3:

Enter Event Details

**EVENT293:Charity:05/09/2021:09/11/2022:-6000**

Invalid Event Details

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File List Save All Compile & Run Evaluate Reset Restore Description

File list

EventManagement

src

Event.java

UserInterface.java

```
1
2
3 import java.util.Date;
4
5 public class Event {
6
7     private String eventId;
8     private String eventType;
9     private Date dateOfRegistration;
10    private Date dateOfEvent;
11    private double payment;
12
13    public Event() {
14        super();
15    }
16    public Event(String eventId, String eventType, Date dateOfRegistration, Date dateOfEvent, double payment) {
17        super();
18        this.eventId = eventId;
19        this.eventType = eventType;
20        this.dateOfRegistration = dateOfRegistration;
21        this.dateOfEvent = dateOfEvent;
22        this.payment = payment;
23    }
24    public String getEventId() {
25        return eventId;
26    }
27    public void setEventId(String eventId) {
28        this.eventId = eventId;
29    }
30    public String getEventType() {
31        return eventType;
32    }
33    public void setEventType(String eventType) {
34        this.eventType = eventType;
35    }
36    public Date getDateOfRegistration() {
37        return dateOfRegistration;
```

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EventManagement

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UserInterface.java

```
29 }
30 public String getEventType() {
31     return eventType;
32 }
33 public void setEventType(String eventType) {
34     this.eventType = eventType;
35 }
36 public Date getDateOfRegistration() {
37     return dateOfRegistration;
38 }
39 public void setDateOfRegistration(Date dateOfRegistration) {
40     this.dateOfRegistration = dateOfRegistration;
41 }
42 public Date getDateOfEvent() {
43     return dateOfEvent;
44 }
45 public void setDateOfEvent(Date dateOfEvent) {
46     this.dateOfEvent = dateOfEvent;
47 }
48 public double getPayment() {
49     return payment;
50 }
51 public void setPayment(double payment) {
52     this.payment = payment;
53 }
54
55 public double calculateAmountToBePaid() {
56
57     //Fill the code here
58     return 0;
59 }
60
61
62
63
64 }
65
```

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File List Save All Compile & Run Evaluate Reset Restore Description

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EventManagement

src

Event.java

UserInterface.java

```
1 import java.text.ParseException;
2 import java.text.SimpleDateFormat;
3 import java.util.Date;
4 import java.util.Scanner;
5
6 public class UserInterface {
7
8     public static Event extractDetails(String eventDetails) throws ParseException
9     {
10         // Fill the code
11         return null;
12     }
13
14     public static void main(String[] args) throws ParseException {
15         Scanner sc=new Scanner(System.in);
16         // Fill the code
17     }
18 }
19
20
```

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