

Name : Hemal Chudasama

Roll No. : 21BCP152

Div - 3 , G - 5

Adapter Design Pattern

- **Program**

```
interface Website{  
    public void hire(String field, String name);  
}
```

```
interface AdvanceWebsite{  
    public void hireByHr(String name);  
    public void hireByWork(String name);  
}
```

```
class HBH implements AdvanceWebsite{  
    @Override  
    public void hireByHr(String name){  
        System.out.println("Hiring Freelancer by  
Hour. Name: "+name);  
    }  
  
    @Override  
    public void hireByWork(String name){  
        //nothing  
    }  
}
```

```
class HBW implements AdvanceWebsite{  
    @Override  
    public void hireByHr(String name){
```

```

        //nothing
    }

    @Override
    public void hireByWork(String name){
        System.out.println("Hiring Freelancer by
Work. Name: "+name);
    }
}

```

```

class WebsiteAdapter implements Website{
    AdvanceWebsite aw;

    public WebsiteAdapter(String field){
        if(field.equalsIgnoreCase("Hour")){
            aw = new HBH();
        }
        else if(field.equalsIgnoreCase("Work")){
            aw = new HBW();
        }
    }

    @Override
    public void hire(String field, String name){
        if(field.equalsIgnoreCase("Hour")){
            aw.hireByHr(name);
        }
        else if(field.equalsIgnoreCase("Work")){
            aw.hireByWork(name);
        }
    }
}

```

```

class App implements Website{
    WebsiteAdapter wa;

    @Override
    public void hire(String field, String name){
        if(field.equalsIgnoreCase("book")){

```

```

        System.out.println("Booking Freelancer.
Name: "+name);
    }
    else if(field.equalsIgnoreCase("Hour") ||
field.equalsIgnoreCase("Work")){
        wa = new WebsiteAdapter(field);
        wa.hire(field, name);
    }
    else{
        System.out.println("Invalid Selection!");
    }
}
}

public class AdapterDP {
    public static void main(String[] args) {
        App ap = new App();

        ap.hire("book", "Graphic Designer");
        ap.hire("hour", "Blog Writer");
        ap.hire("work", "Video Editor");
        ap.hire("work", "Web Developer");
    }
}

```

- Output

```

Booking Freelancer. Name: Graphic Designer
Hiring Freelancer by Hour. Name: Blog Writer
Hiring Freelancer by Work. Name: Video Editor
Hiring Freelancer by Work. Name: Web Developer

```