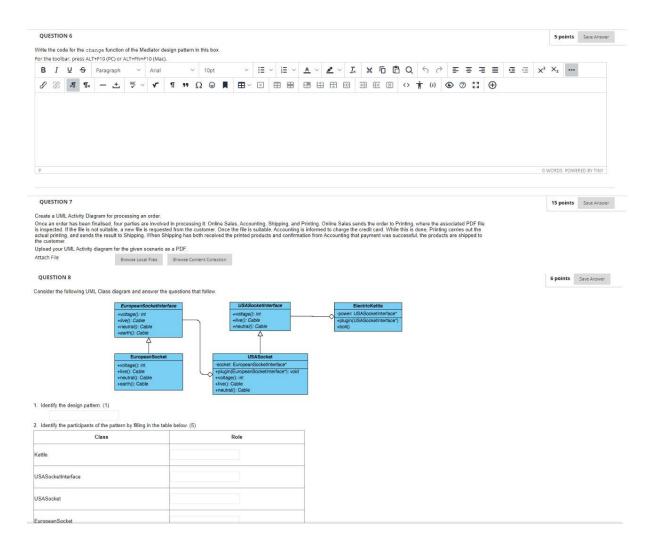
QUESTION 1	1 points Save Answer
hat is a draw back of the Mediator pattern?	
). A, it creates lots of little objects that all look alike.	
) B. It hides implementation details from client.	
C. It complicates object protocols.	
) D. It couples colleagues. ) E. It centralises control.	
QUESTION 2	1 points Save Answer
e Mediator pattern couples colleagues.	
True	
False	
QUESTION 3	1 points Save Answer
e Mediator pattern is classified as:	
O Creational	
Behavioural	
Structural	
QUESTION 4	1 points Save Answer
nich pattern observes an object and reacts appropriately when the state of the object changes?	
Ich pattern doserves an onject and reacts appropriately when the state of the object changes?  Iterator	
Mediator	
Memento	
Observer	
UESTION 5	6 points Save Answer
1: changed  1.1: changed  1.1: changed  1.1: changed  1.2: notify  Pasenal By: Visual Principles Community Edition •	
(a) (b)	
(se You may assume that the diagrams include only object names and that the corresponding plass names are the same as the object names without the numbers. 1.12 Do not read meaning into the names of the functions on the diagrams. These function names do not correspond to those with the same names in the pattern. Identify the design patterns represented by each of the sequence diagrams. (2)	
(a)	
(b)	
Which participant(s) in (a) defined the notafy () function? (1)	
Which participant(s) in (b) defined the notify() function?(1)	
Note: You may assume that the diagrams include only object names and that the corresponding class names are the same as the object names without the numbers	
Hint: Do not read meaning into the names of the functions on the diagrams. These function names do not correspond to those with the same names in the pattern.  1. Identify the design patterns represented by each of the sequence diagrams. (2)	
(a) Mediator	
(b) Observer	
2. Which participant(s) in (a) defined the notify () function? (1)	
Mediator	
3. Which participant(s) in (b) defined the notify() function? (1)	



9 points Save Answer QUESTION 9

You have a TV and its remote. The remote only has two buttons, one for toggling between on and off, and the other to change between the 5 programmed channels on the TV. A testing code snippet from the client perspective is given by:

```
TVRemote tre new TVRemote tre-
tre-zonPushed();
tvr->channelChanged();
tvr->channelChanged();
tvr->channelChanged();
tvr->channelChanged();
tvr->channelChanged();
tvr->channelChanged();
```

1. Which participants of the Command pattern do the TV and TV remote represent?

```
TV -
TV remote -
```

2. Given that the Command participant is defined as follows:

```
class Command {
    public
    virtual void execute() = 0;
    protected:
    virtual char* getStatus() = 0;
};
```

```
a. Suggest the names for the other participants in the Command hierarchy.
```

b. Complete the code snippet below for the class definition and implementation of the functions of the TV remote.

```
b. Complete the code snippet below for the class definition and implementation of the functions of the TV remote.
```

```
void onPushed(){
-----(iii)------
```

(i).	
(ii).	
(iii).	
(iv).	
(v).	