Sample Question 1 Solution

1. Add HP to the player class

```
protected:
protected:
virtual void BeginPlay();

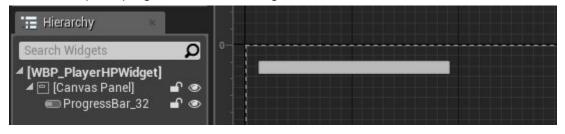
public:
UPROPERTY(BlueprintReadOnly)
float HP = 1.0f;
```

- 2. Create PlayerHPWidget class (parent is UserWidget)
- 3. Add a player property in the widget

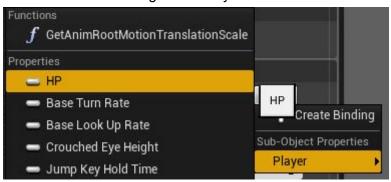
4. Create WBP_PlayerHPWidget through the editor



5. Setup the progress bar in the widget



6. Create a binding to the Player's HP



7. Add this widget subclass property to the player's header file

```
58 UPROPERTY(EditAnywhere)
59 TSubclassOf<class UPlayerHPWidget> WidgetClass;
```

8. Add code to create the widget and add it to the viewport in the implementation file

9. On the player BP, choose the WBP PlayerHPWidget



10. To test the widget, we can decrement the player's HP on gun fire

11. If you did the setup correctly, the player loses health when firing

