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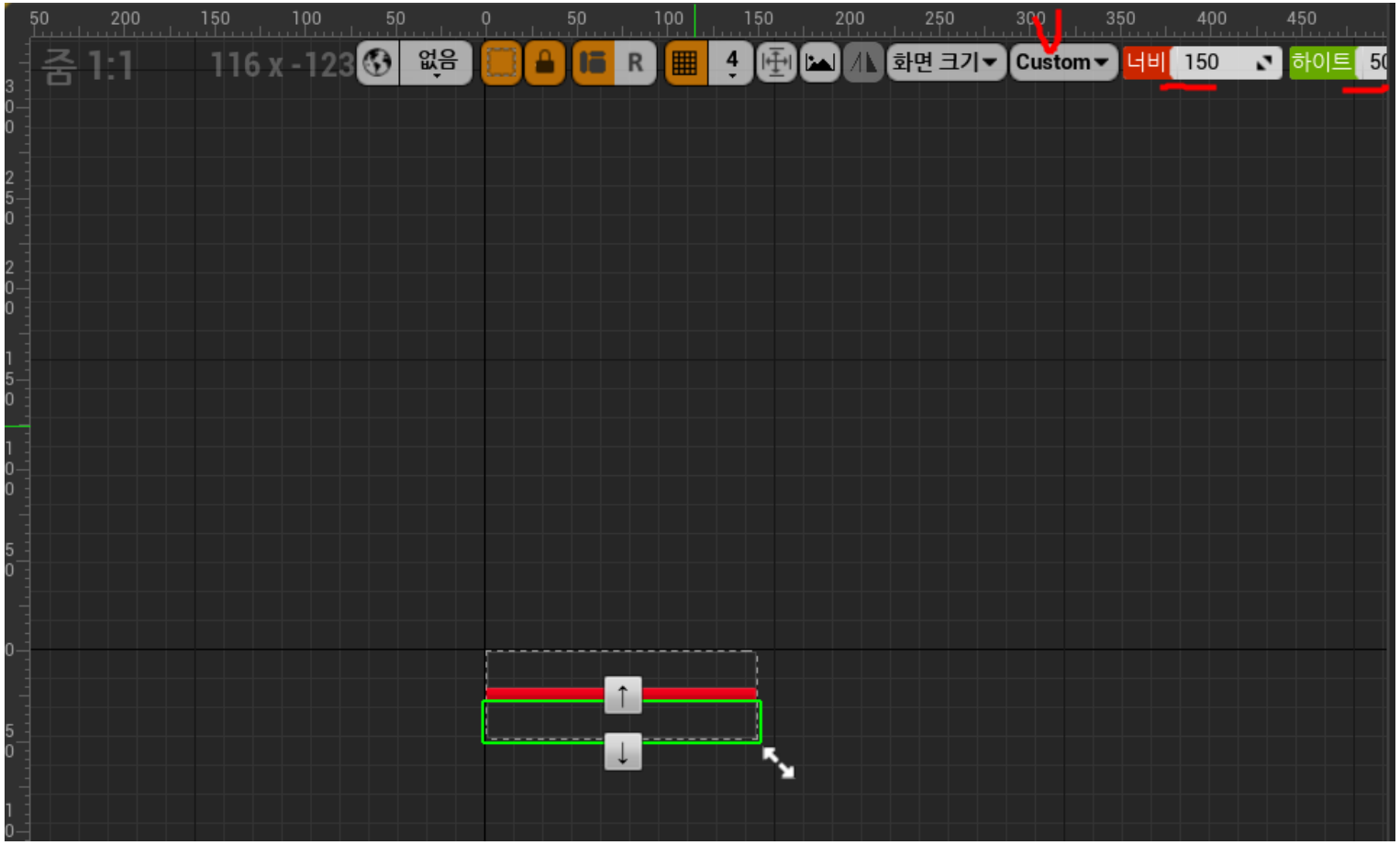
5. ABCharacterStatComponent 처리

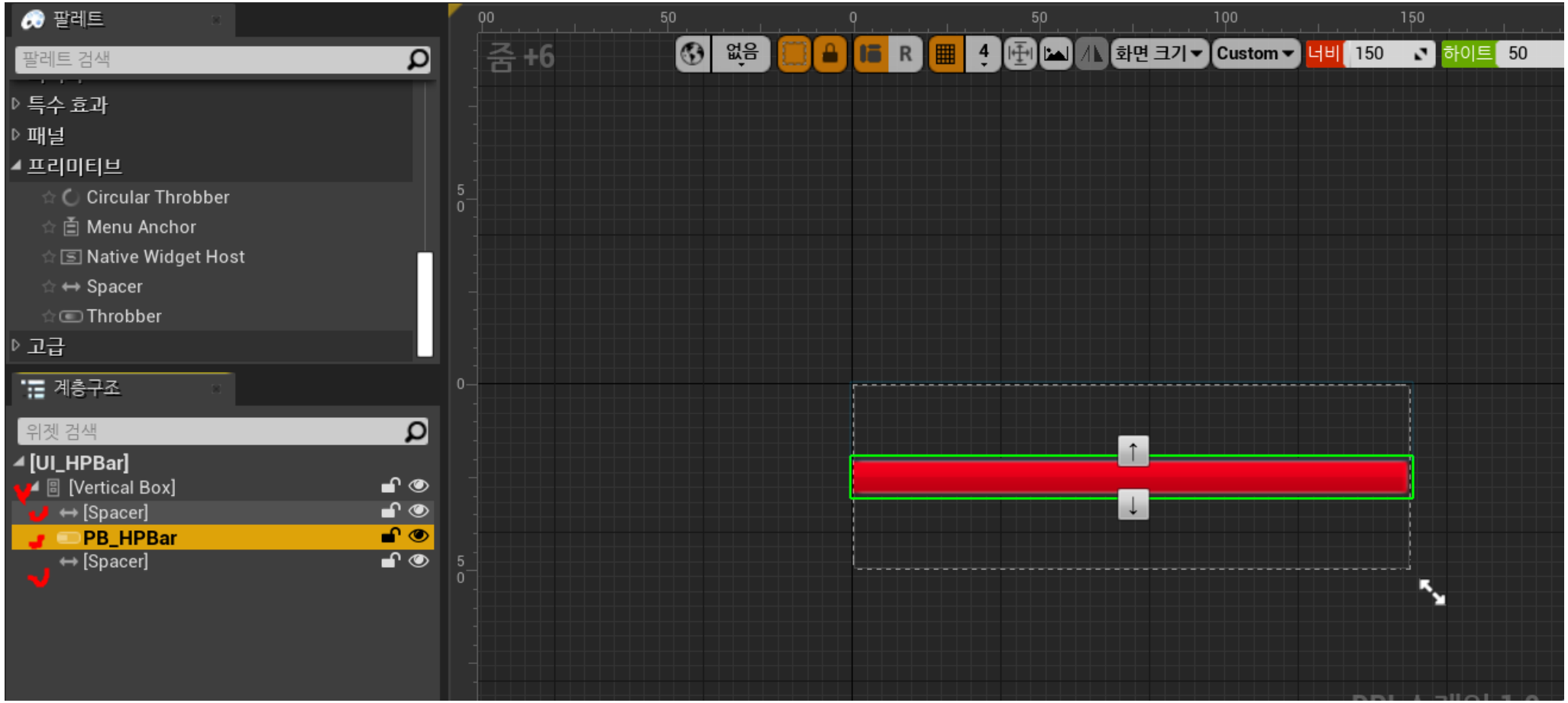
6. UI_HPBar 처리

7. EnemyCharacter 처리

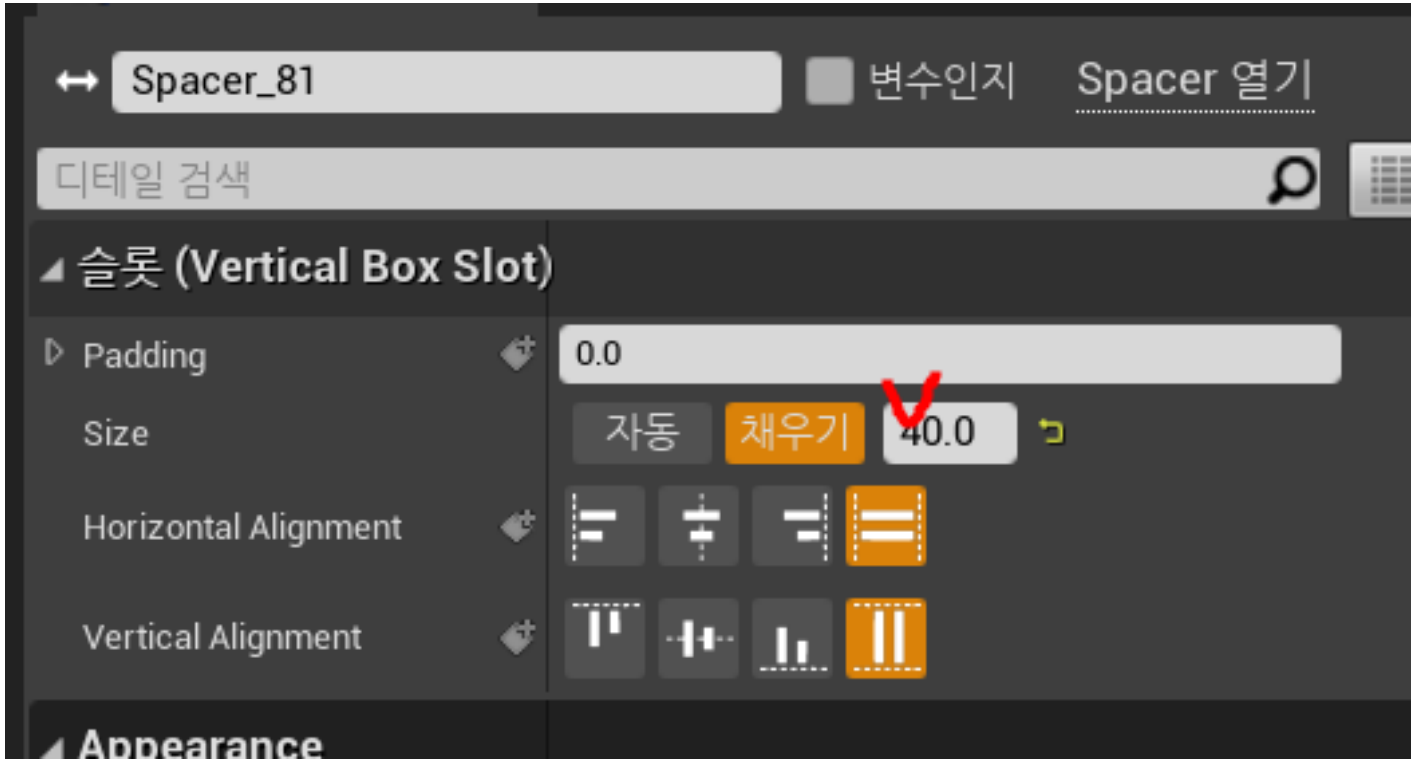
1. 위젯 블루프린트 UI_HPBar 생성



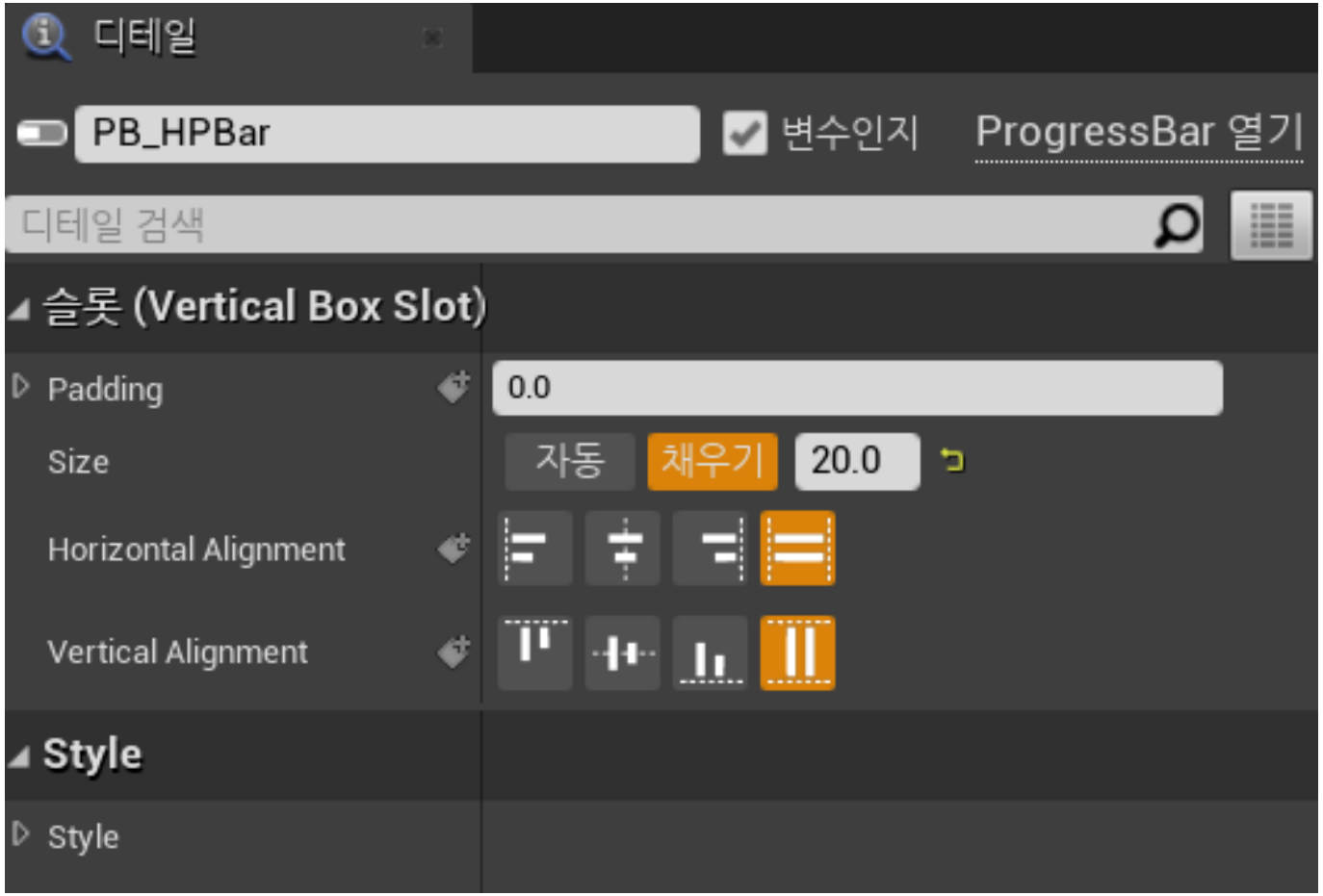
1.1 스크린의 크기를 Custom으로 바꾸고 150, 50으로 맞춘다.


팔레트
팔레트 검색
특수 효과
패널
프리미티브
Circular Throbber
Menu Anchor
Native Widget Host
Spacer
Throbber
고급
계층구조
위젯 검색
[UI_HPBar]
[Vertical Box]
[Spacer]
PB_HPBar
[Spacer]
줌 +6
없음
R
4
화면 크기
Custom
너비
150
하이트
50

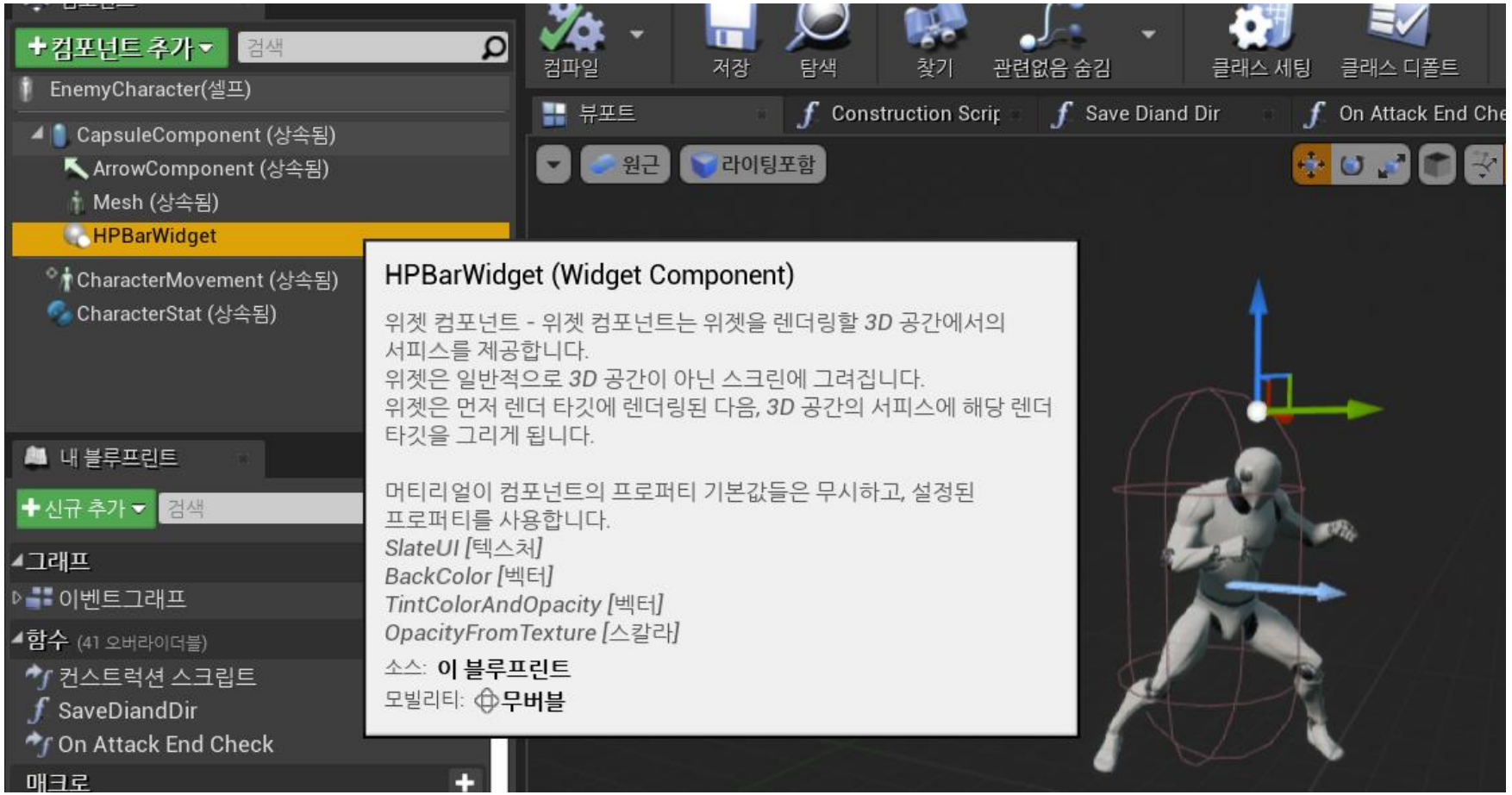
1.2 위젯을 부착한다.



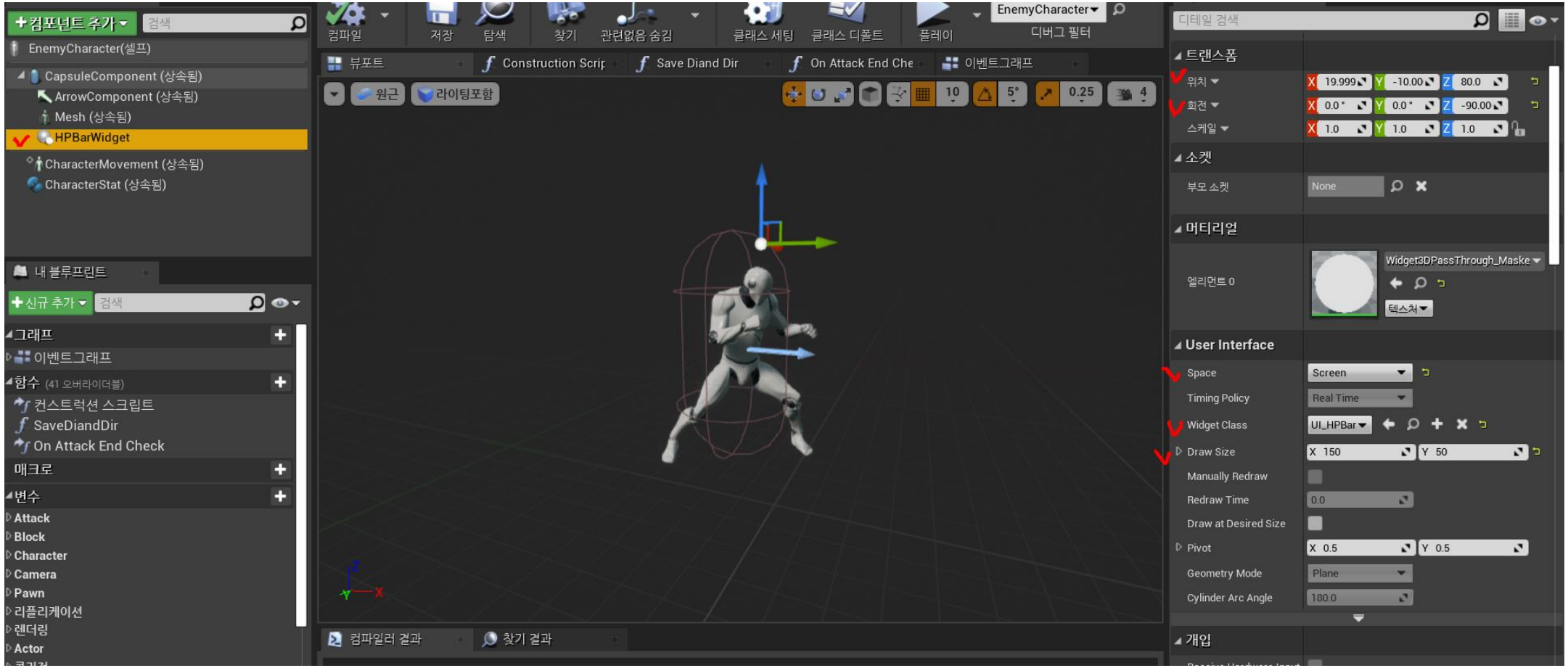
1.3 Spacer의 size를 40으로 맞춘다.



1.4 PB_HPBar의 Size를 20으로 바꾼다.

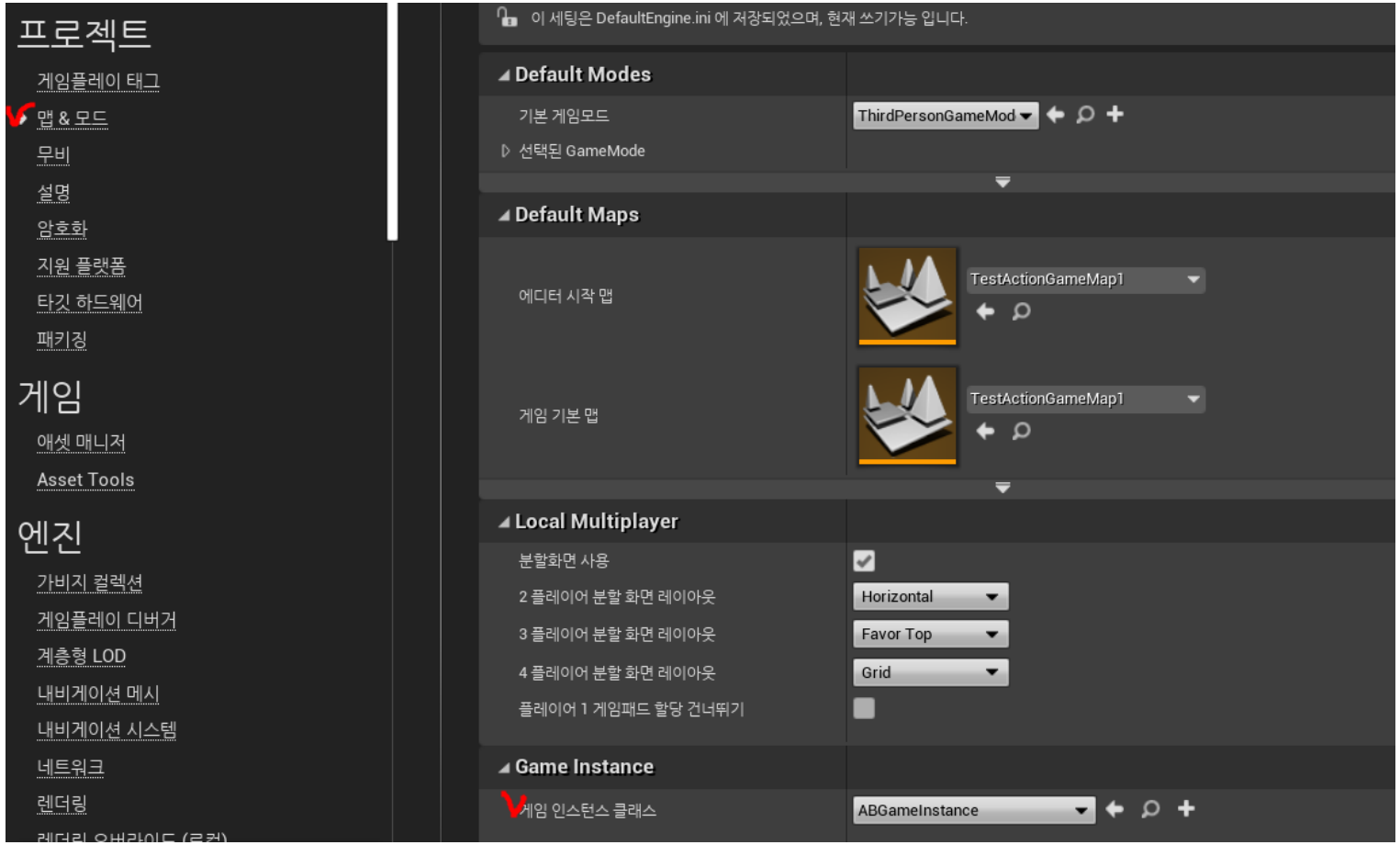


1.5 EnemyCharacter에 들어가서 WidgetComponent HPBarWidget을 추가한다

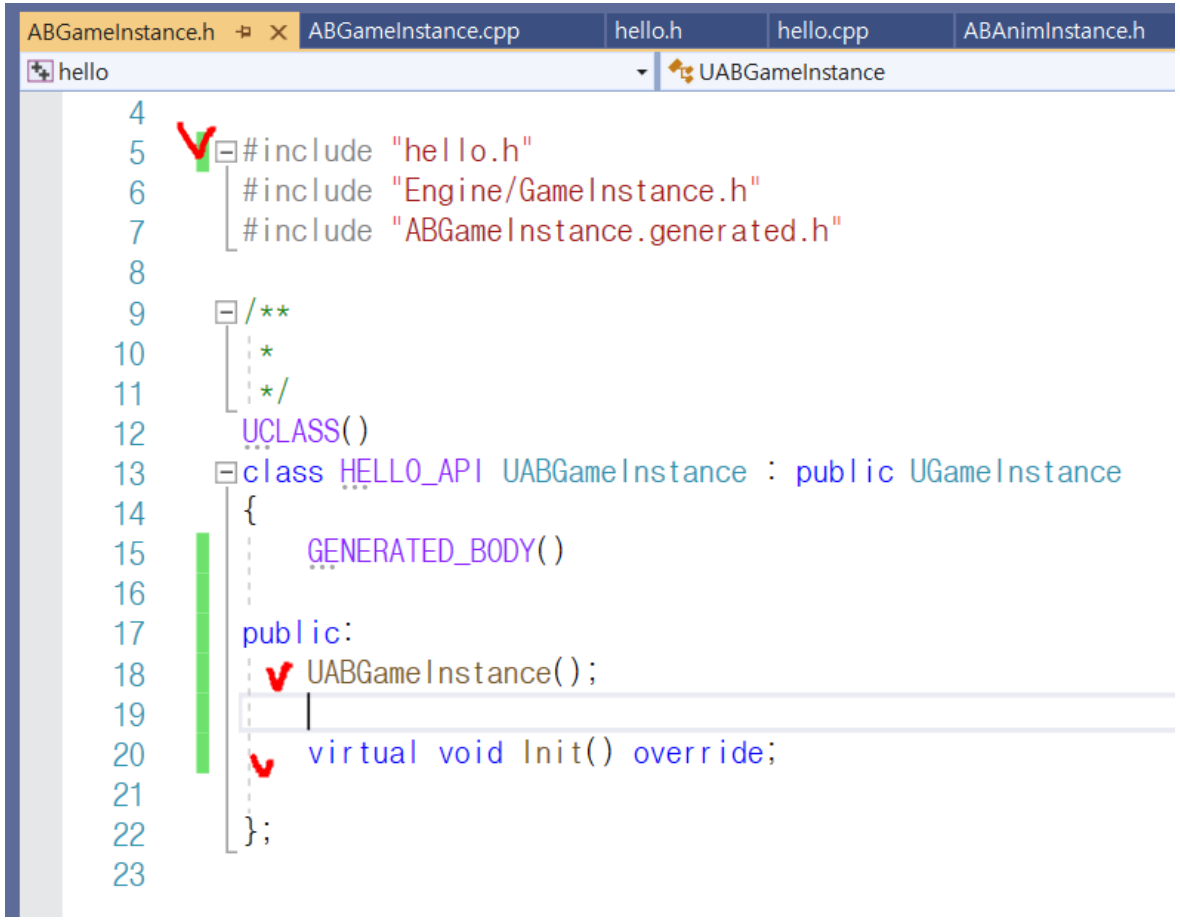


1.6 HPBarWidget 설정 변경

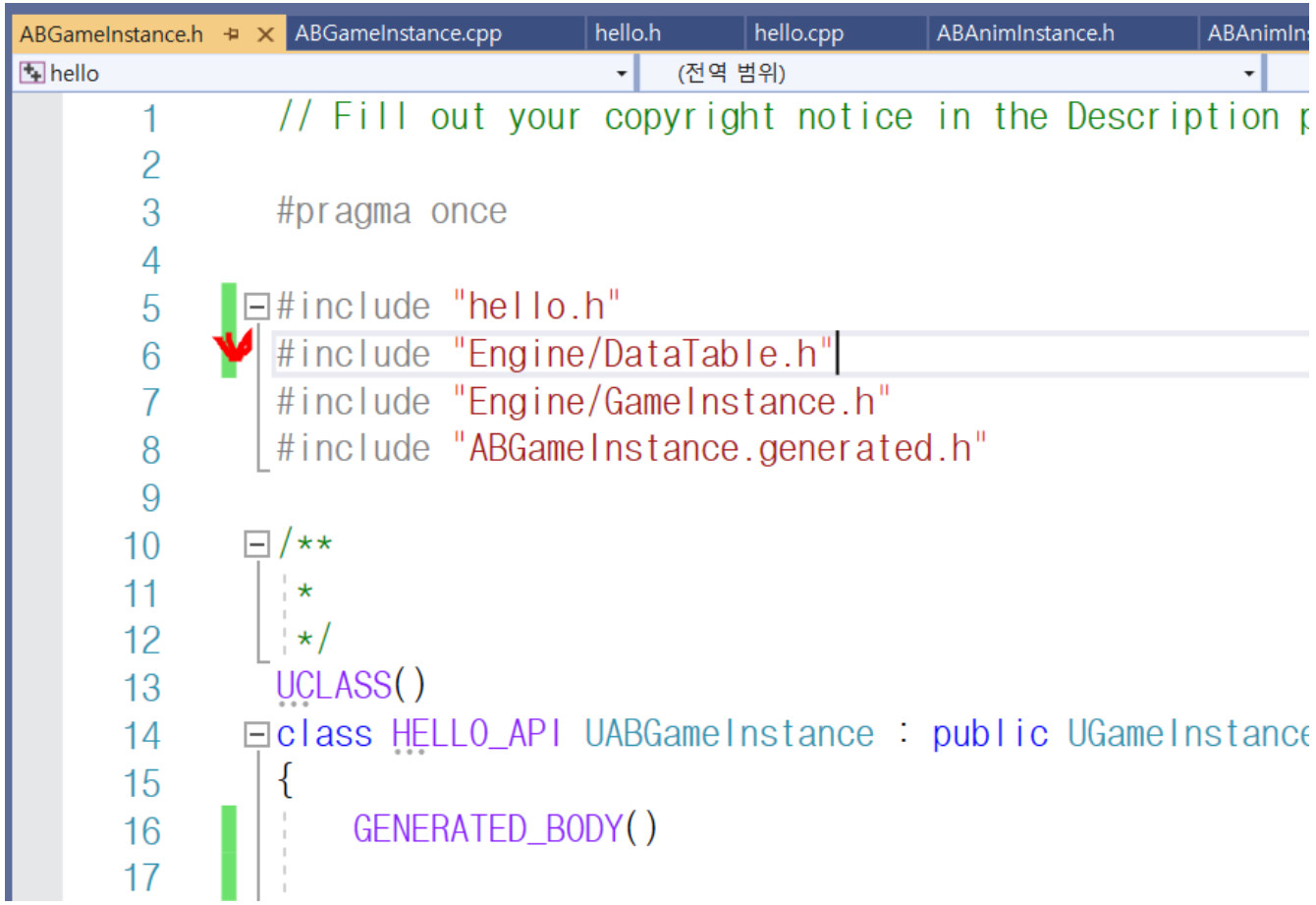
2. GameInstance를 상속받은 ABGameInstance를 생성한다.



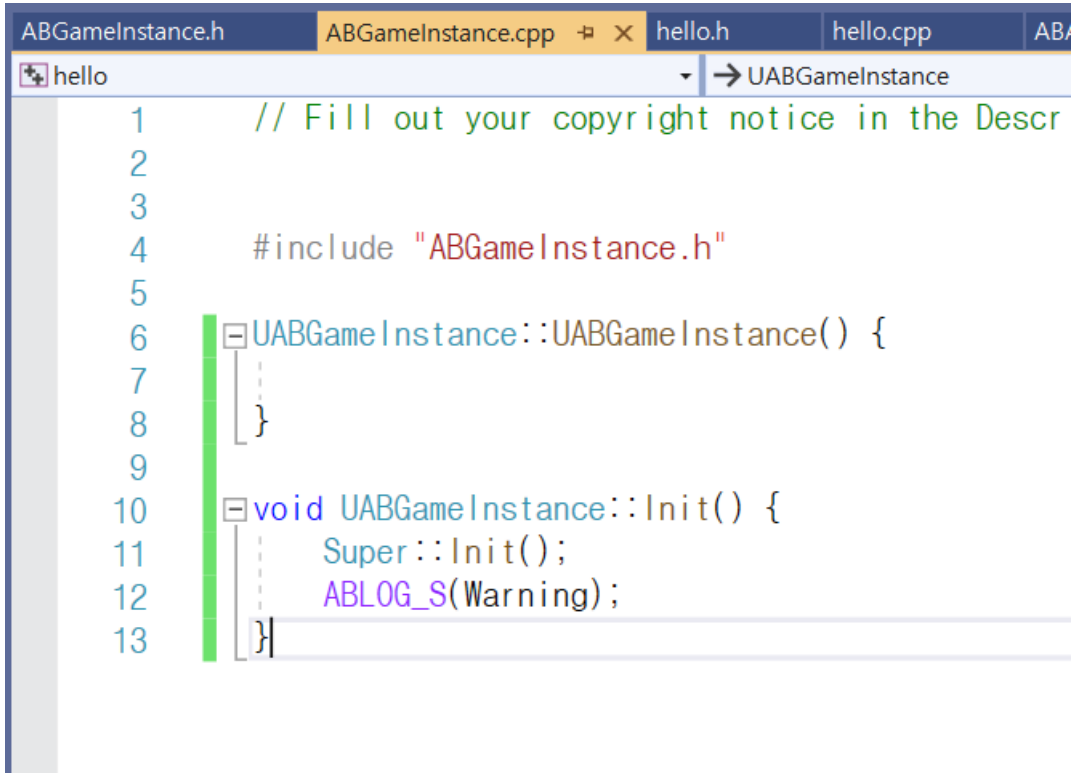
2.1 게임 인스턴스 클래스에 ABGameInstance를 넣는다.



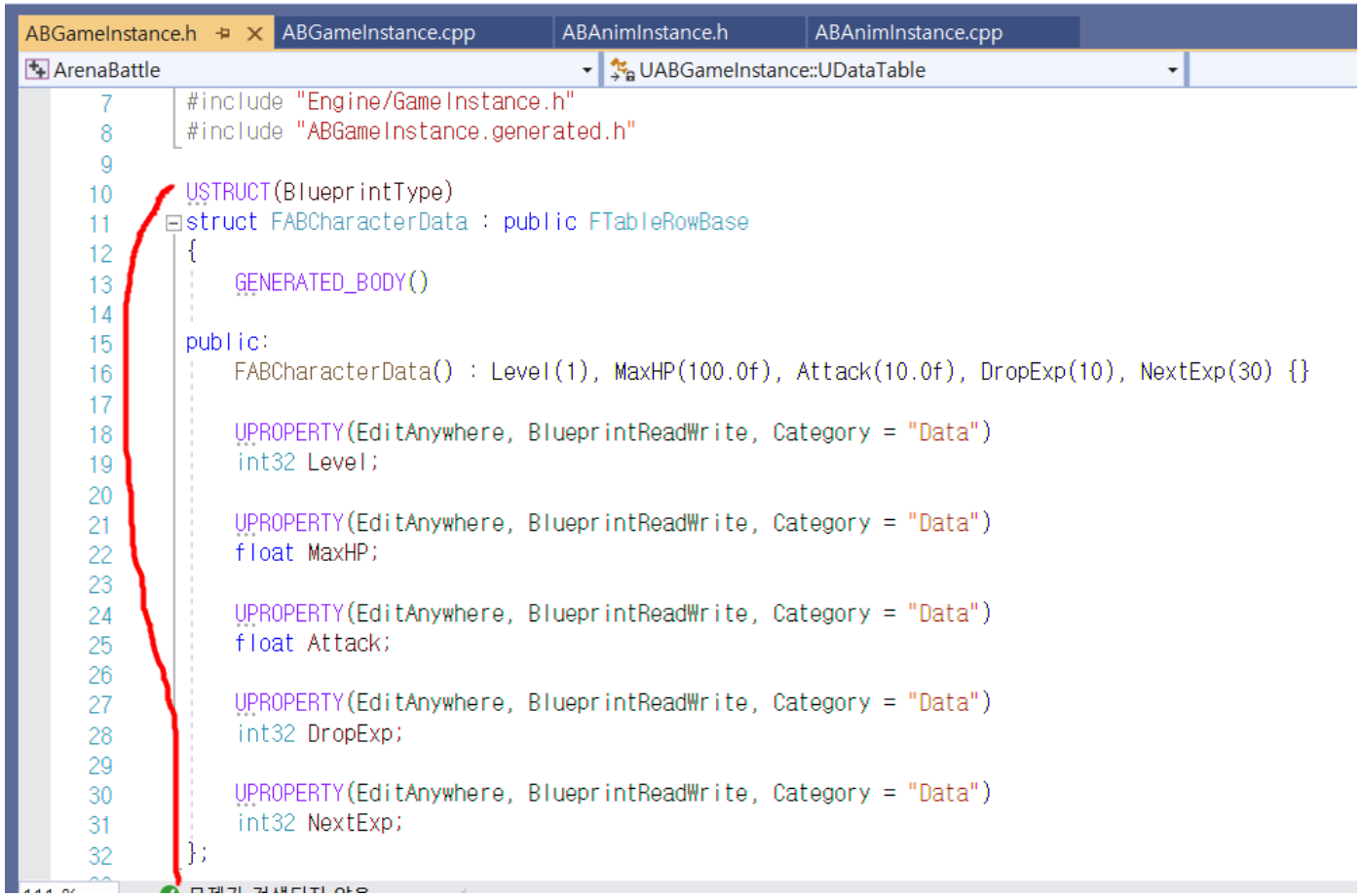
2.2 ABGameInstance에 들어가서 생성자와 Init()를 추가한다



2.3 DataTable을 인크루드한다.



2.3 구현에 들어가서 생성자와 함수를 구현한다.



2.4 struct FABCharacterData를 추가한다

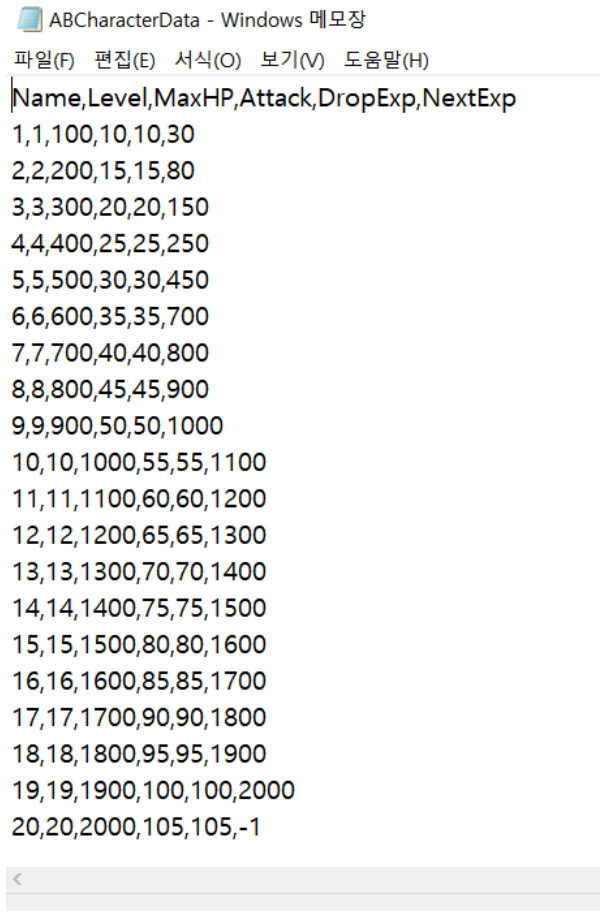
A2 | Name

	A	B	C	D	E	F	G	H	I
1									
2	Name	Level	MaxHP	Attack	DropExp	NextExp			
3	1	1	100	10	10	30			
4	2	2	200	15	15	80			
5	3	3	300	20	20	150			
6	4	4	400	25	25	250			
7	5	5	500	30	30	450			
8	6	6	600	35	35	700			
9	7	7	700	40	40	800			
10	8	8	800	45	45	900			
11	9	9	900	50	50	1000			
12	10	10	1000	55	55	1100			
13	11	11	1100	60	60	1200			
14	12	12	1200	65	65	1300			
15	13	13	1300	70	70	1400			
16	14	14	1400	75	75	1500			
17	15	15	1500	80	80	1600			
18	16	16	1600	85	85	1700			
19	17	17	1700	90	90	1800			
20	18	18	1800	95	95	1900			
21	19	19	1900	100	100	2000			

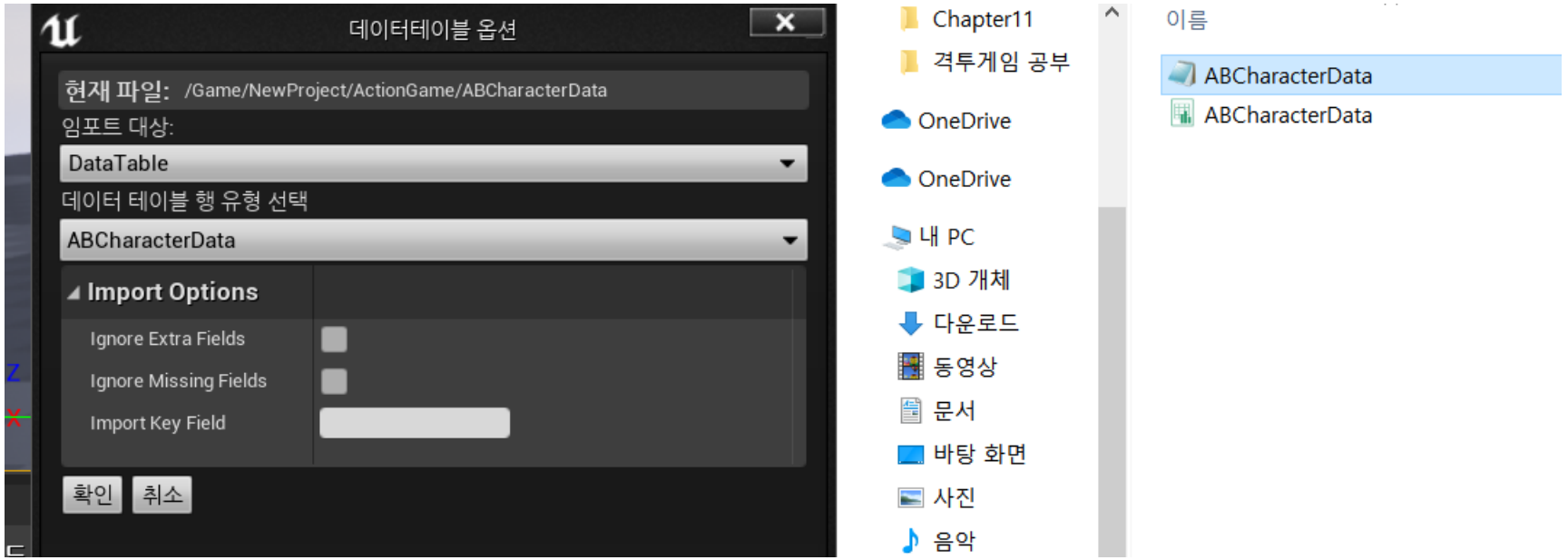
Player

준비

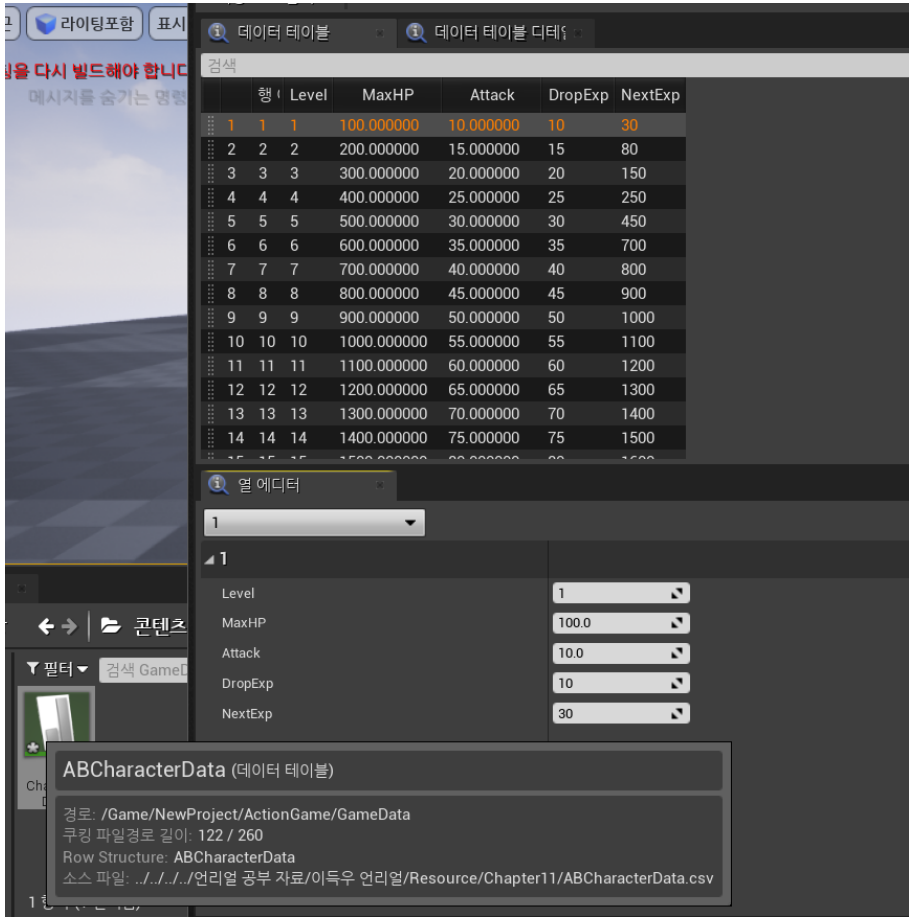
2.5 미리 만들어둔 데이터테이블을 CSV 파일로 저장한다.



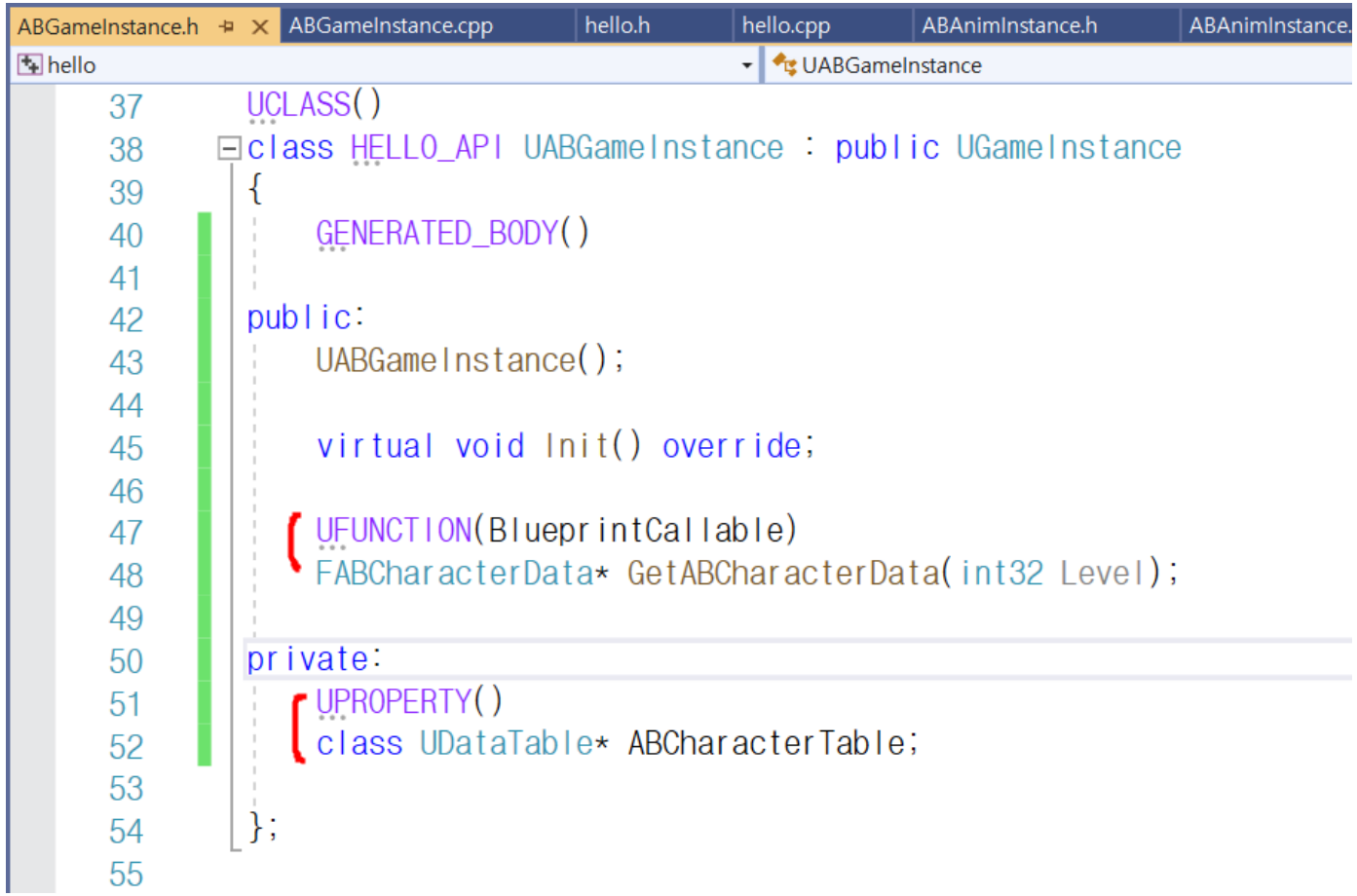
2.6 CSV로 저장된 결과



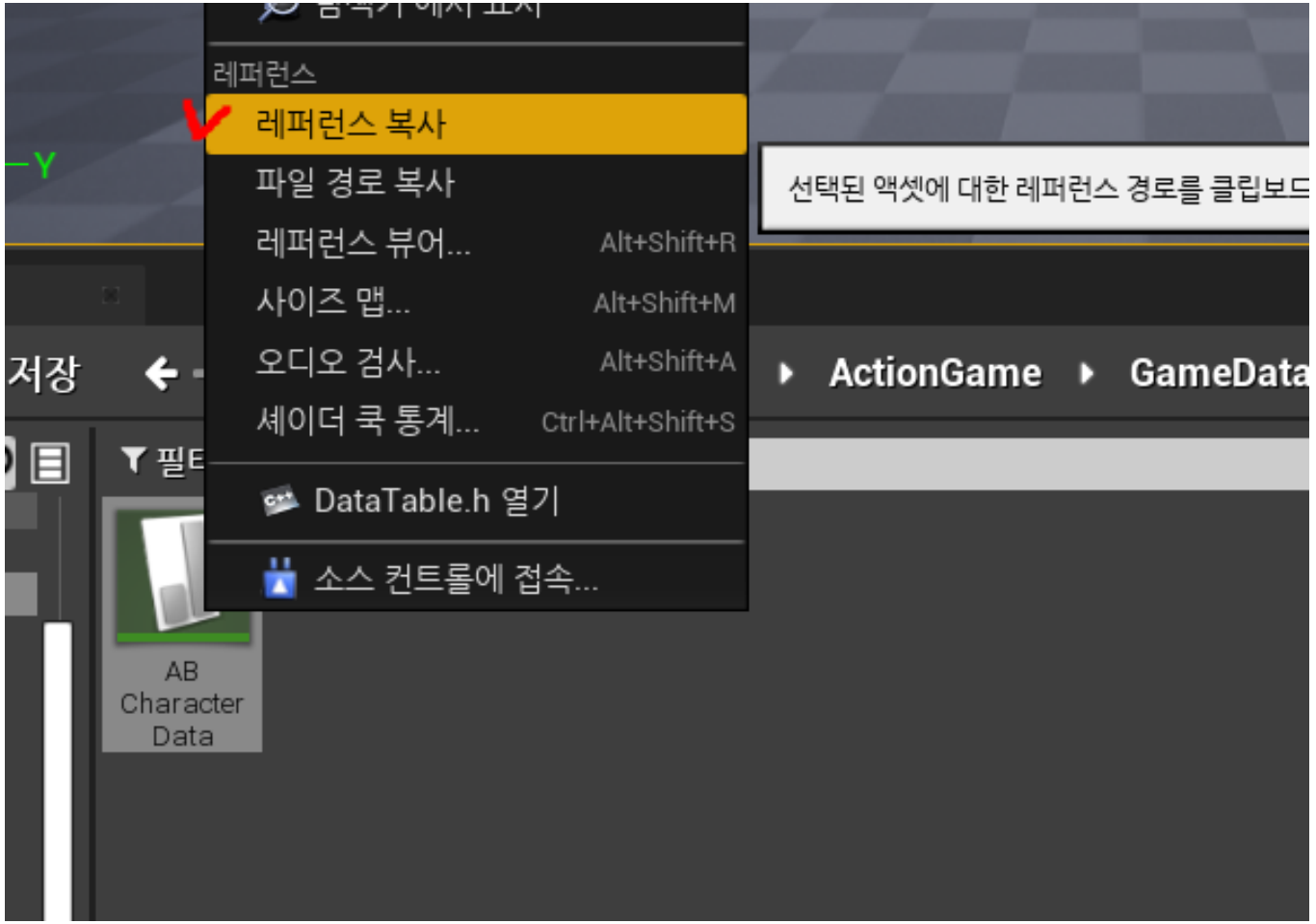
2.7 ABCharacterData를 에디터에 임포트하고 구조체 ABCharcterData를 데이터테이블 유형으로 한다.



2.8 데이터테이블이 생성된 결과

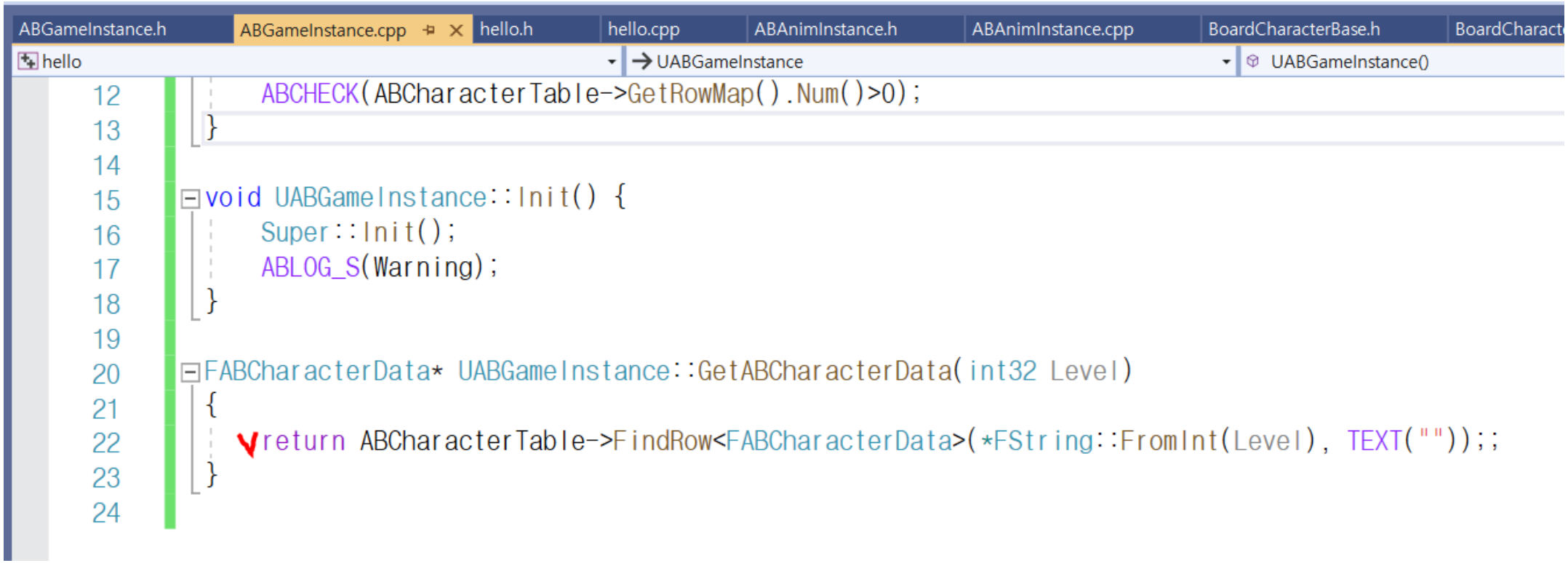


2.9 GetABCharacterData 함수와 UDataTable 포인터 ABCharacterTable을 선언

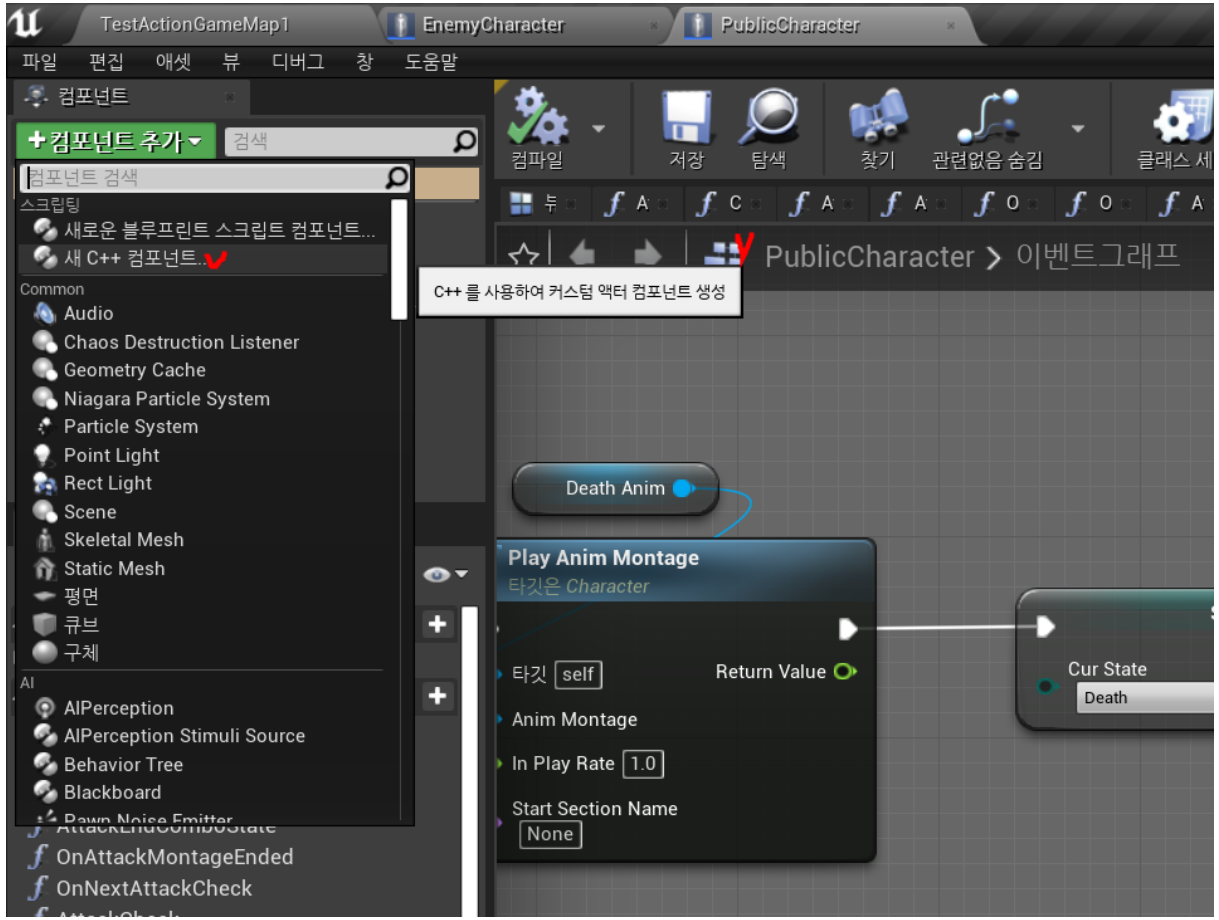


2.10 ABCharacterData의 레퍼런스 복사를 한다.

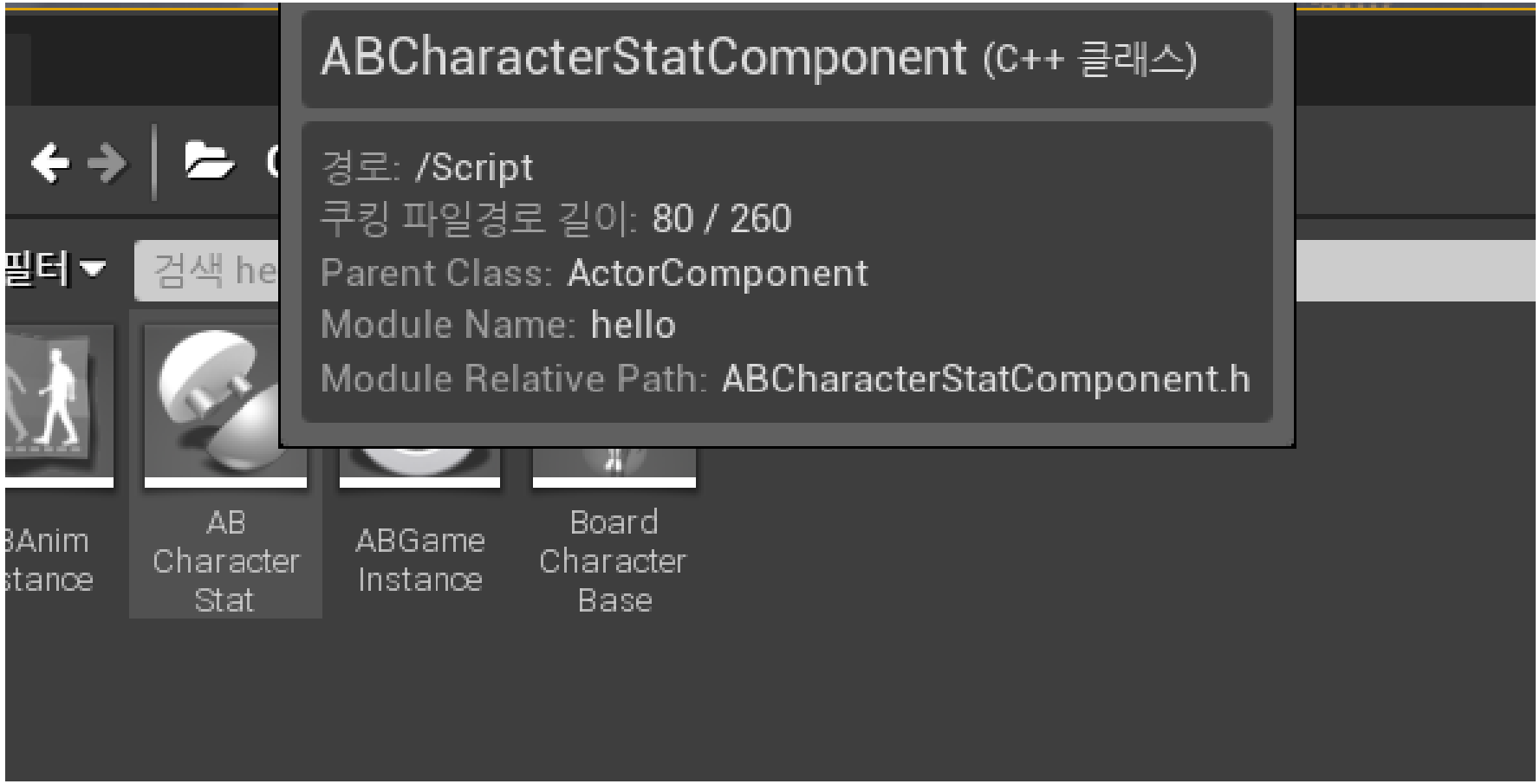
2.11 ABCharacterData의 레퍼런스를 가지고 와서 ABCharacterTable에 넣는다.



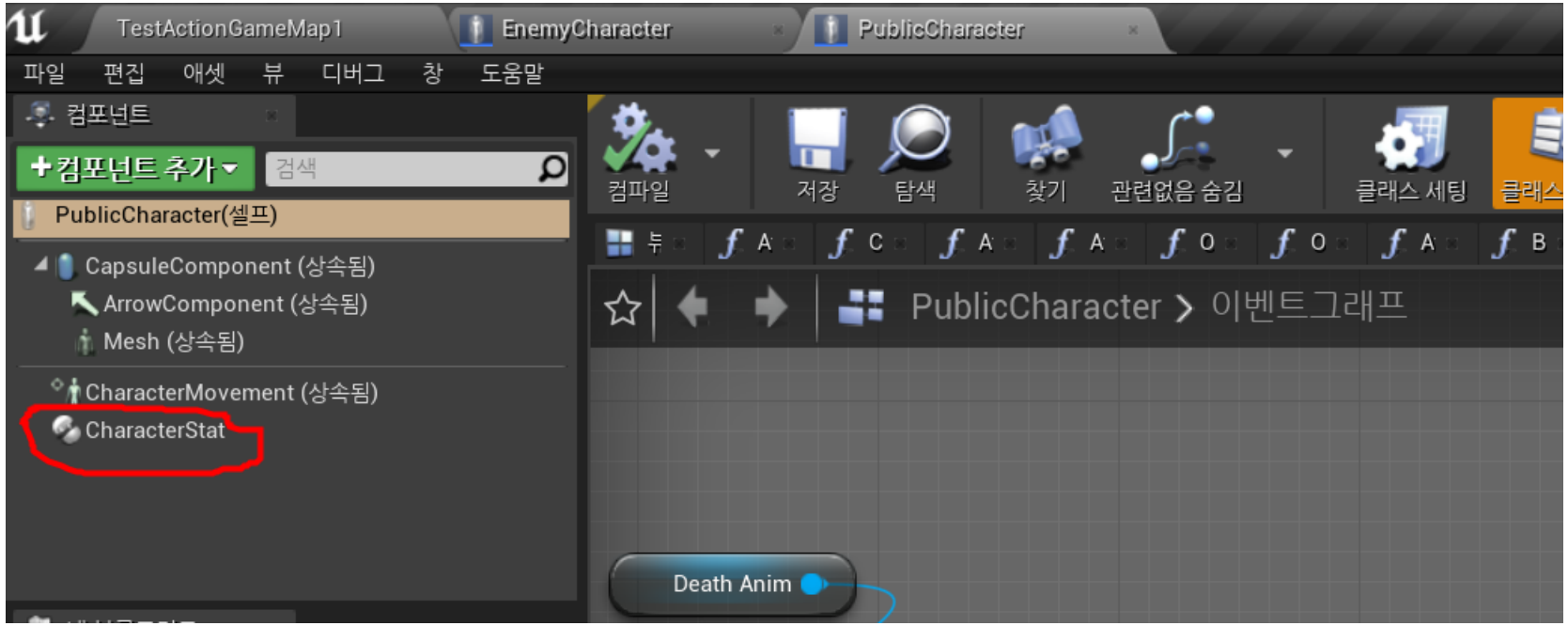
2.12 GetABCharacterData 함수 구현



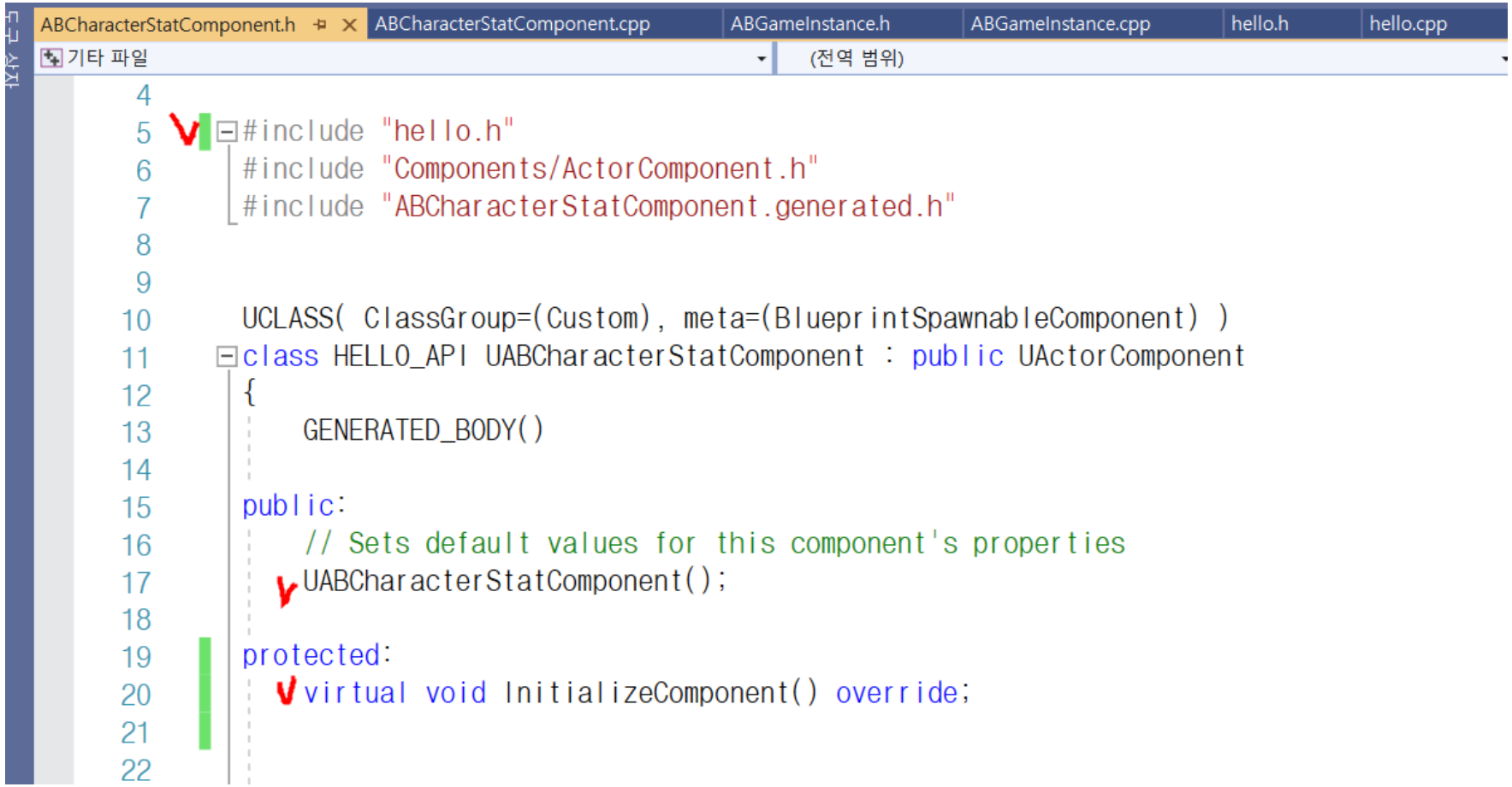
3. PublicCharacter에 들어가서 컴포턴트 추가에 새 C++ 컴포넌트를 클릭한다.



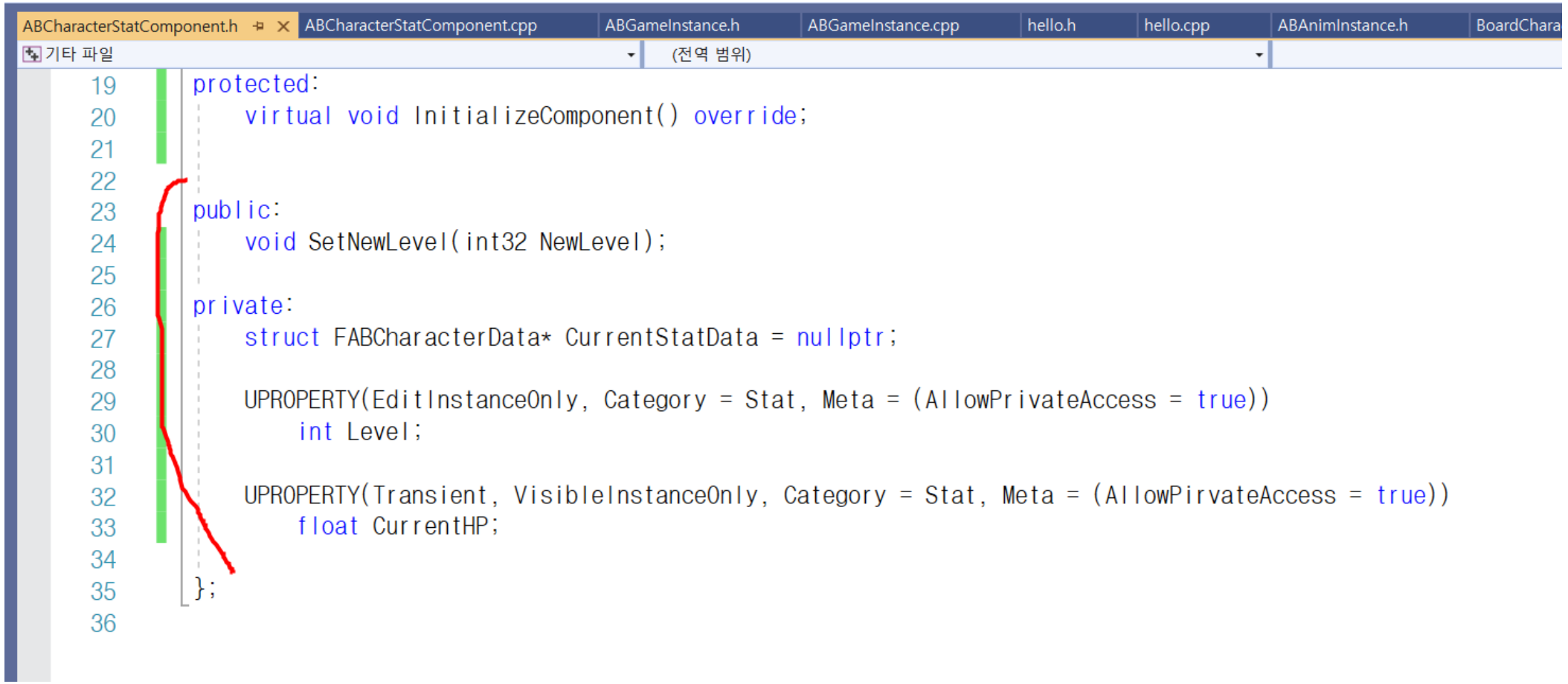
3.1 ActorComponent를 상속받은 ABCharacterStatComponent가 생성된다.



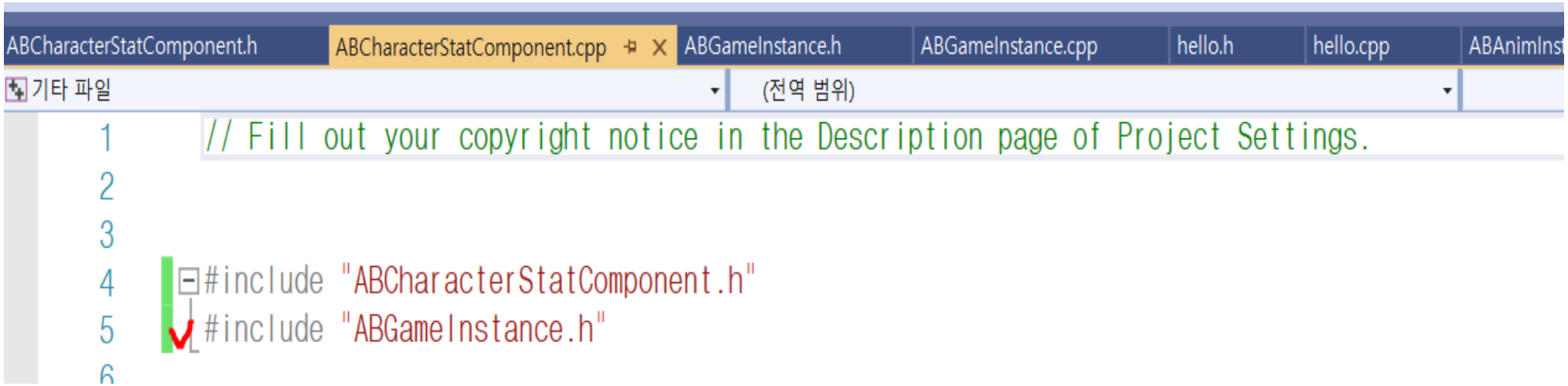
3.1.1 ABCharacterStatComponent를 컴포넌트에 추가하고 CharacterStat로 한다.



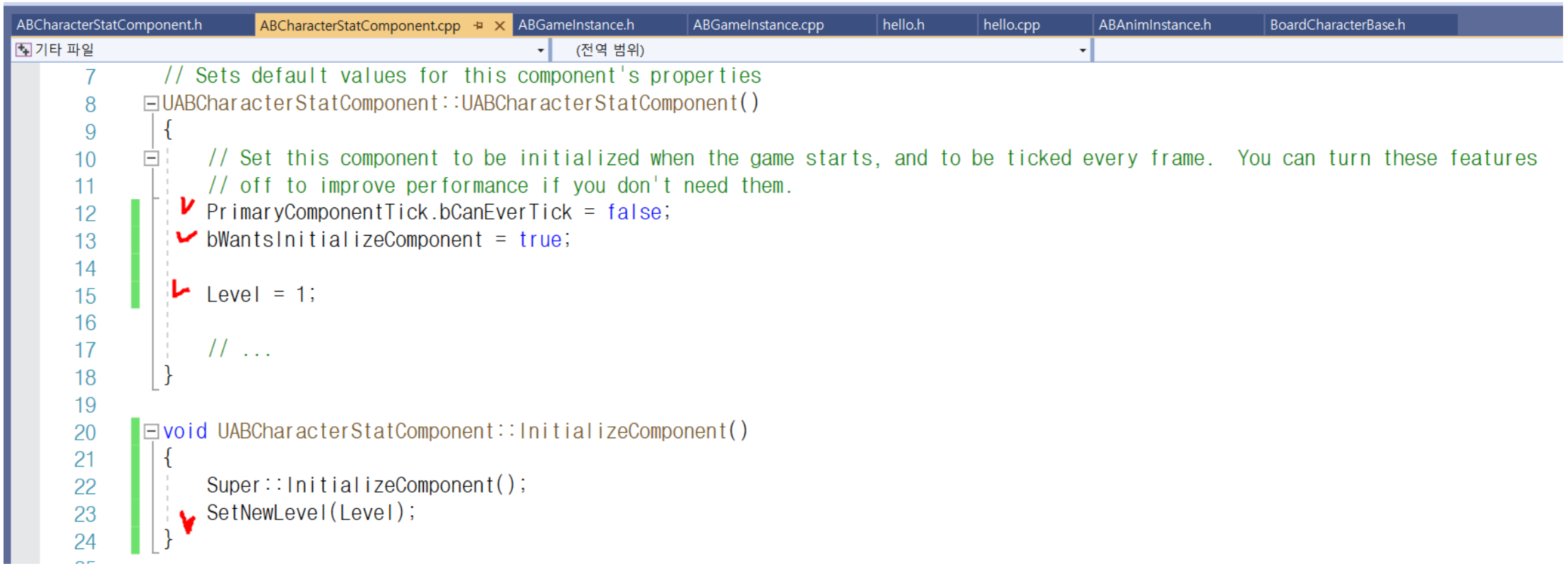
3.2 프로젝트 헤더를 include 하고, 생성자, InitializeComponent 함수를 선언한다.



3.3 SetNewLevel 함수와 변수들을 선언한다.

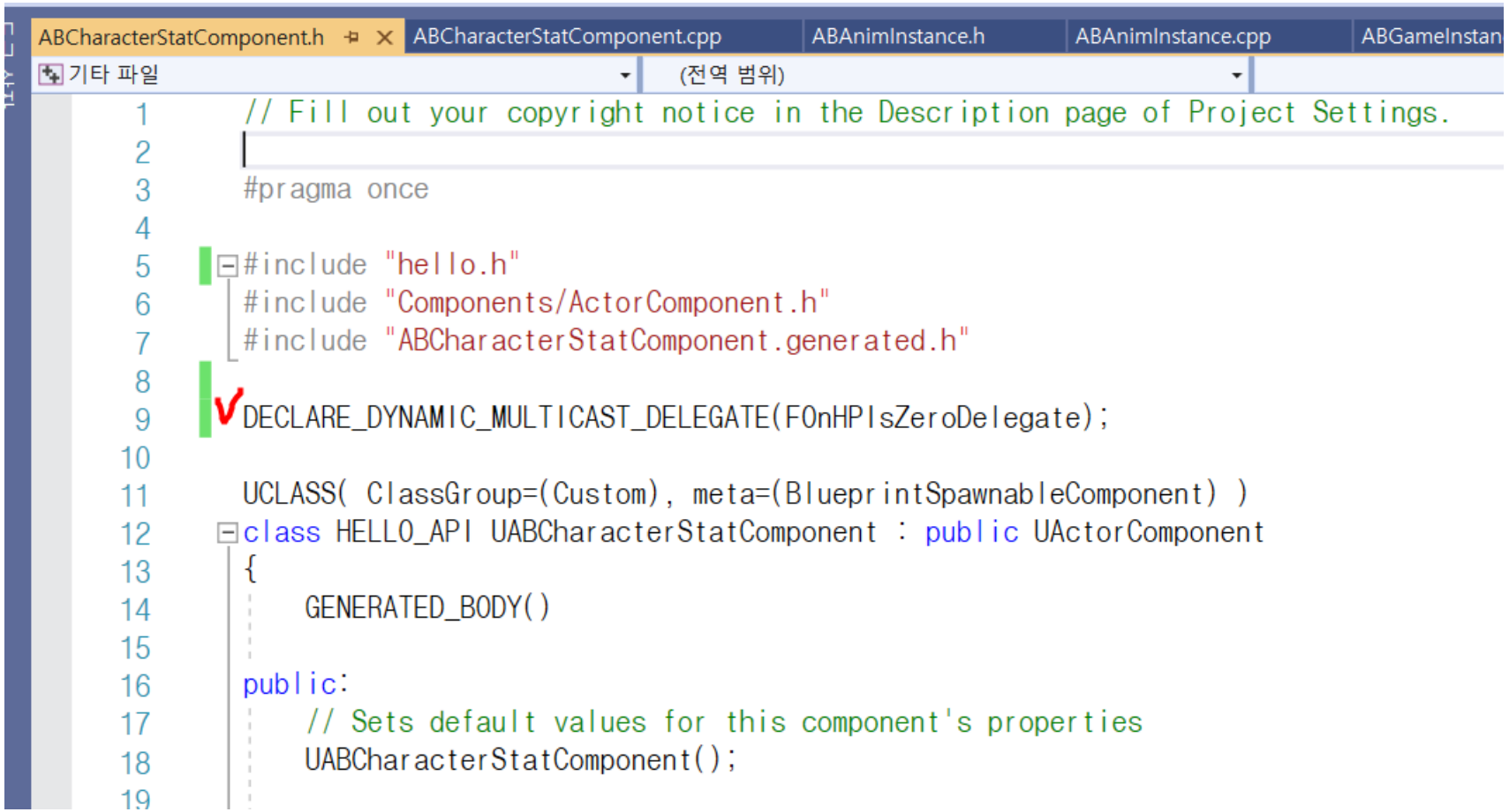


3.3.1 구현부로 너어가서 ABGameInstance 헤더를 추가한다.



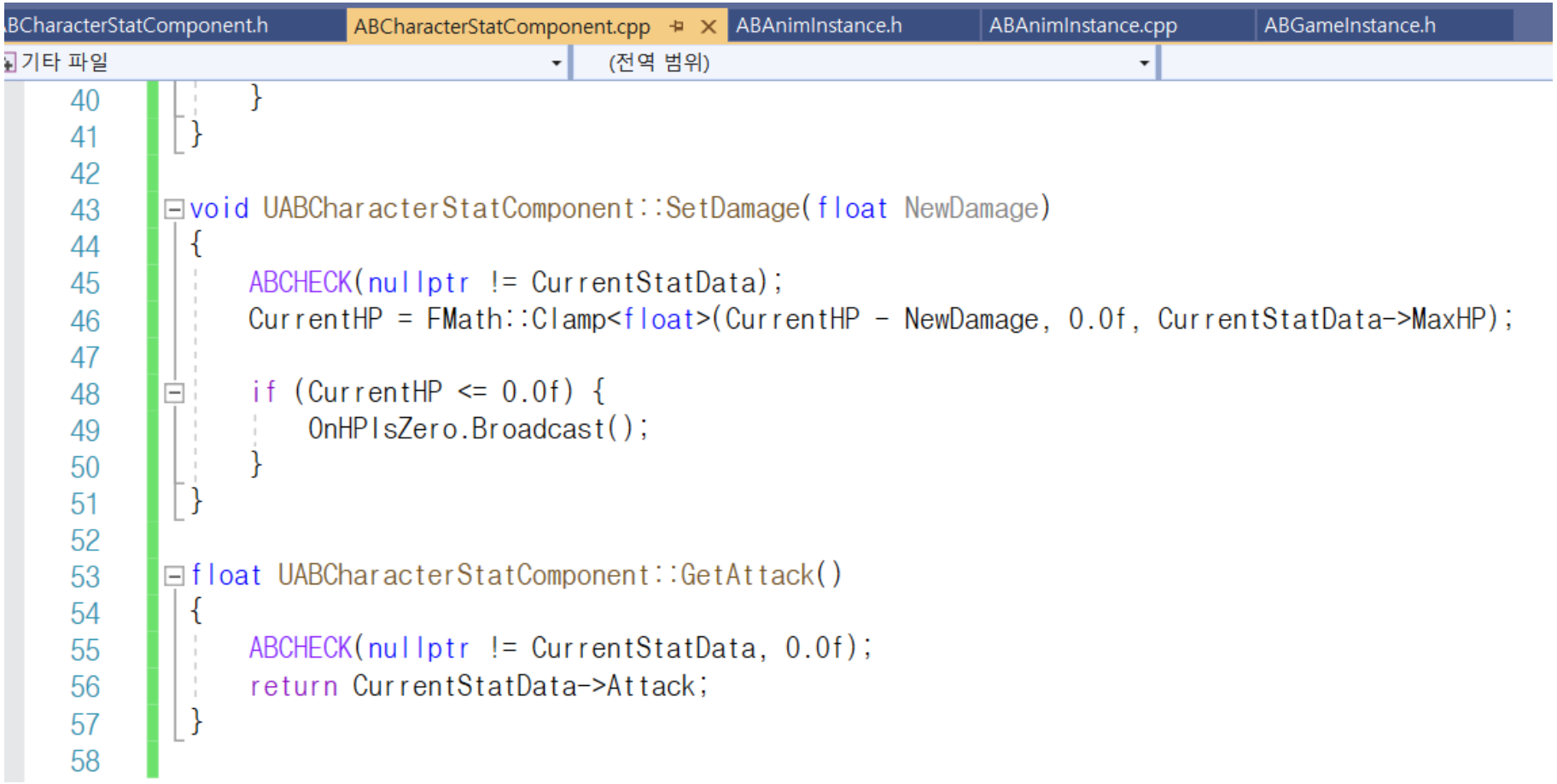
3.4 생성자에서 변수를 초기화 하고, InitializeComponent 함수에 SetNewLevel을 호출한다.

3.5 SetNewLevel 함수를 구현한다.

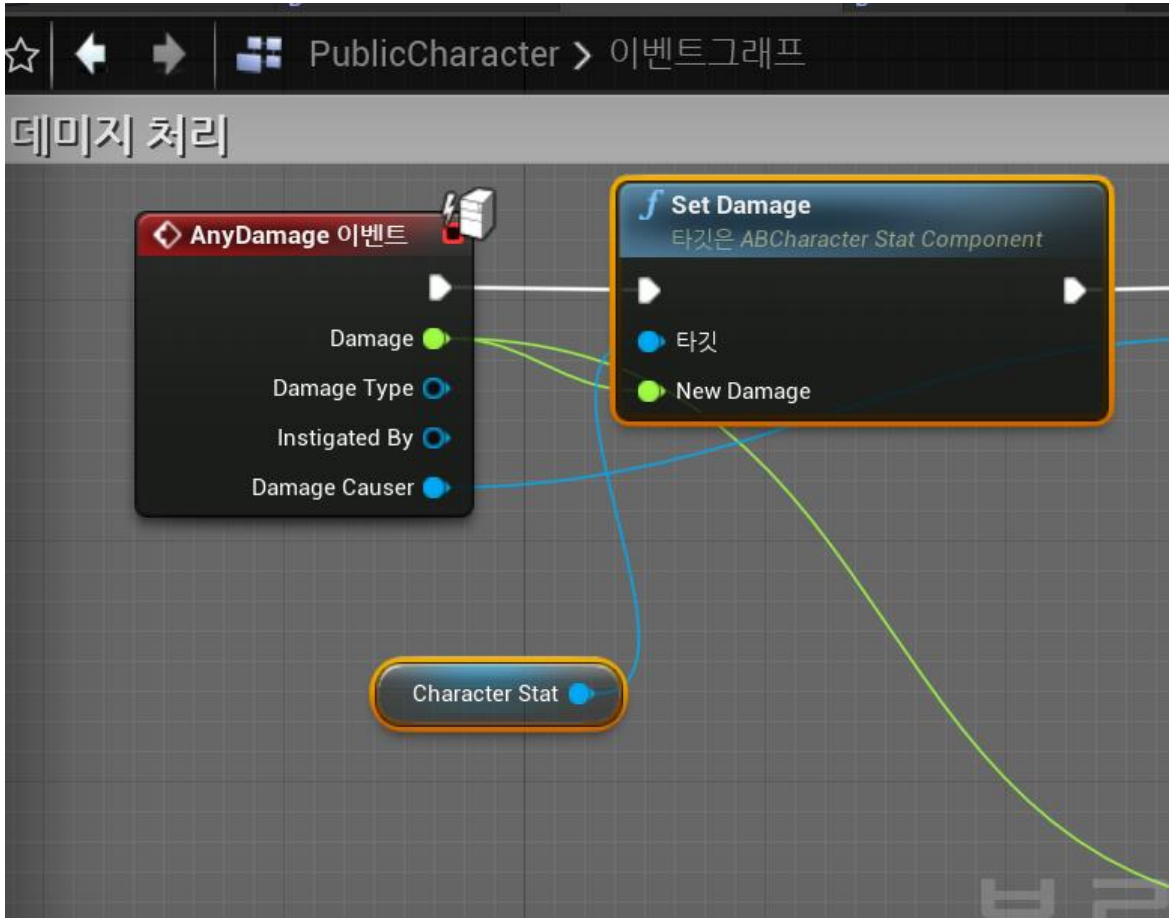


3.6 다이나믹 델리게이트 OnHPIsZeroDelegate 선언

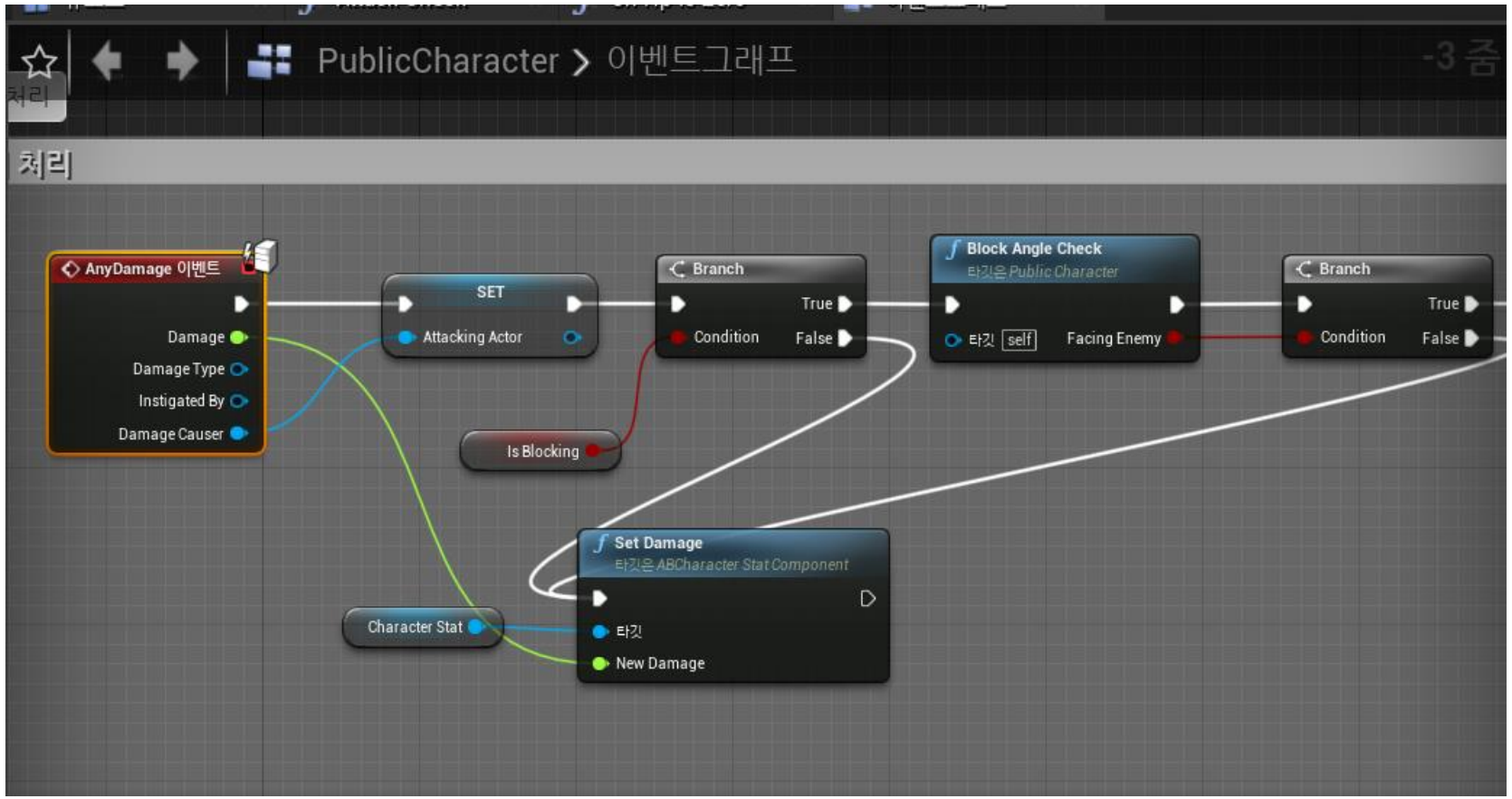
3.7 SetDamge, GetAttack 함수 선언



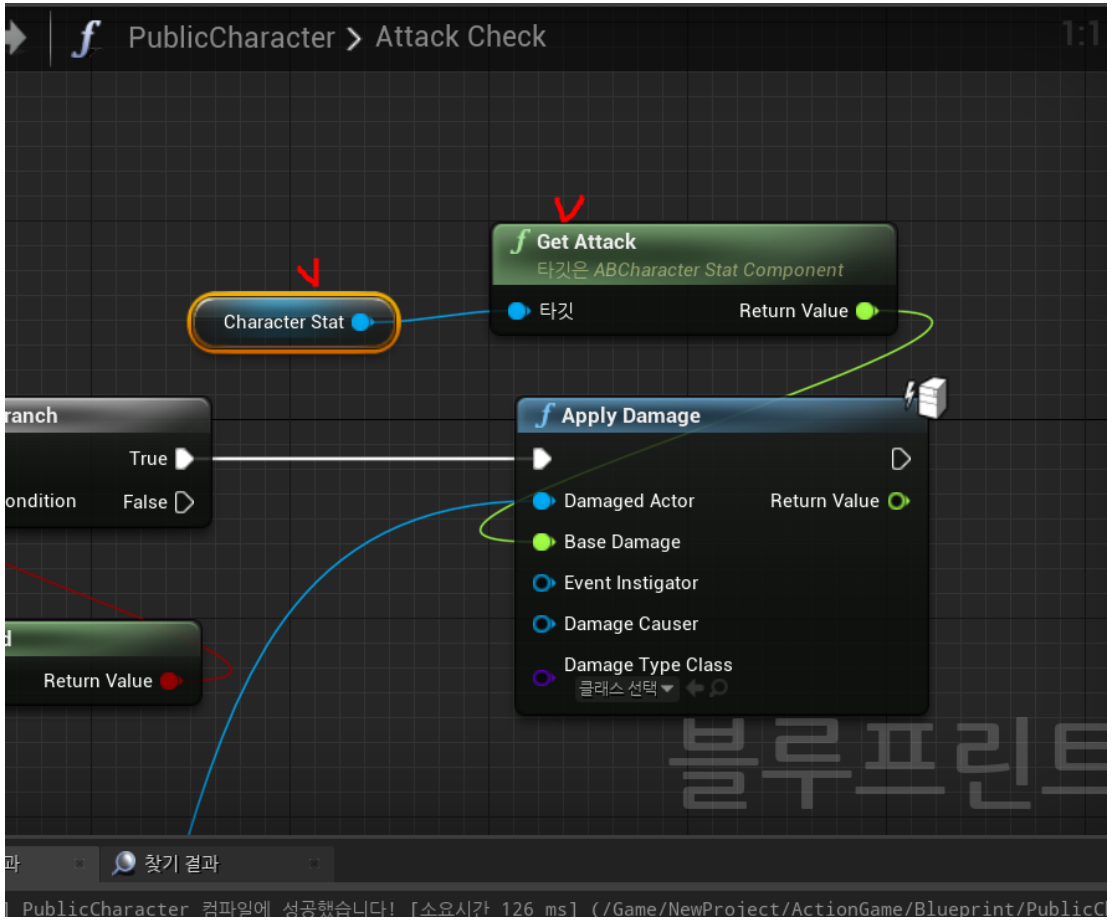
3.8 구현으로 넘어가서 SetDamage, GetAttack 함수 구현



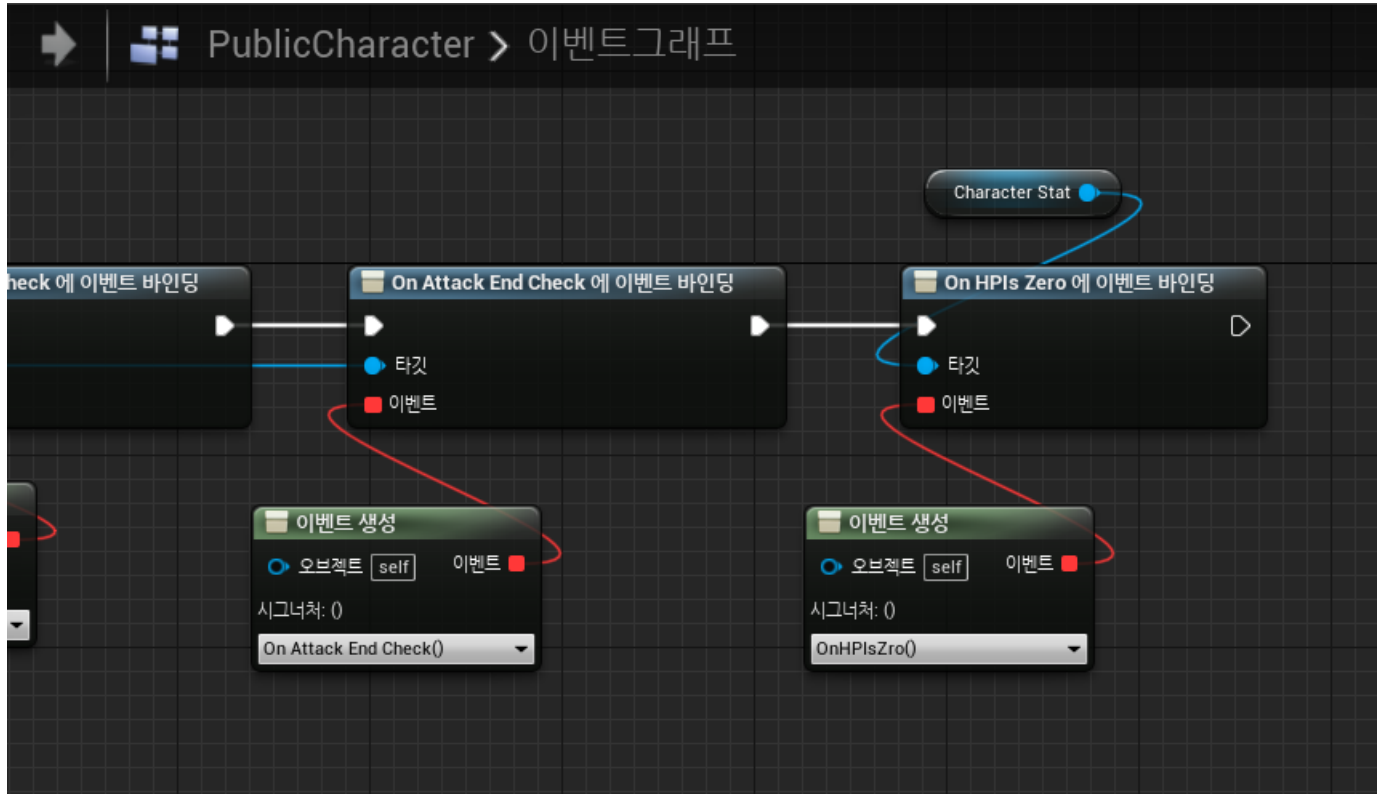
4. PublicCharacter에 들어가서 CharacterStat의 SetDamage를 호출한다.



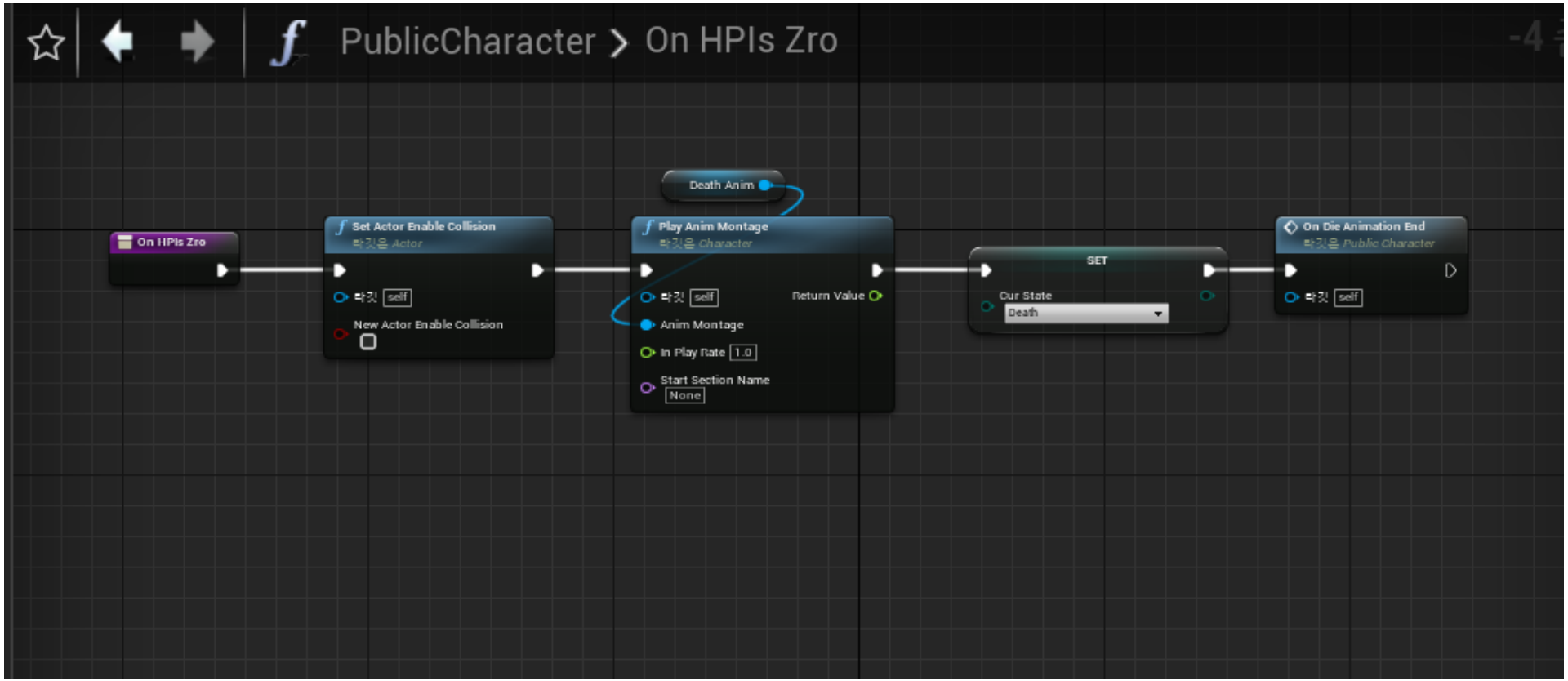
4.0 AnyDamage 이벤트를 정리한 결과



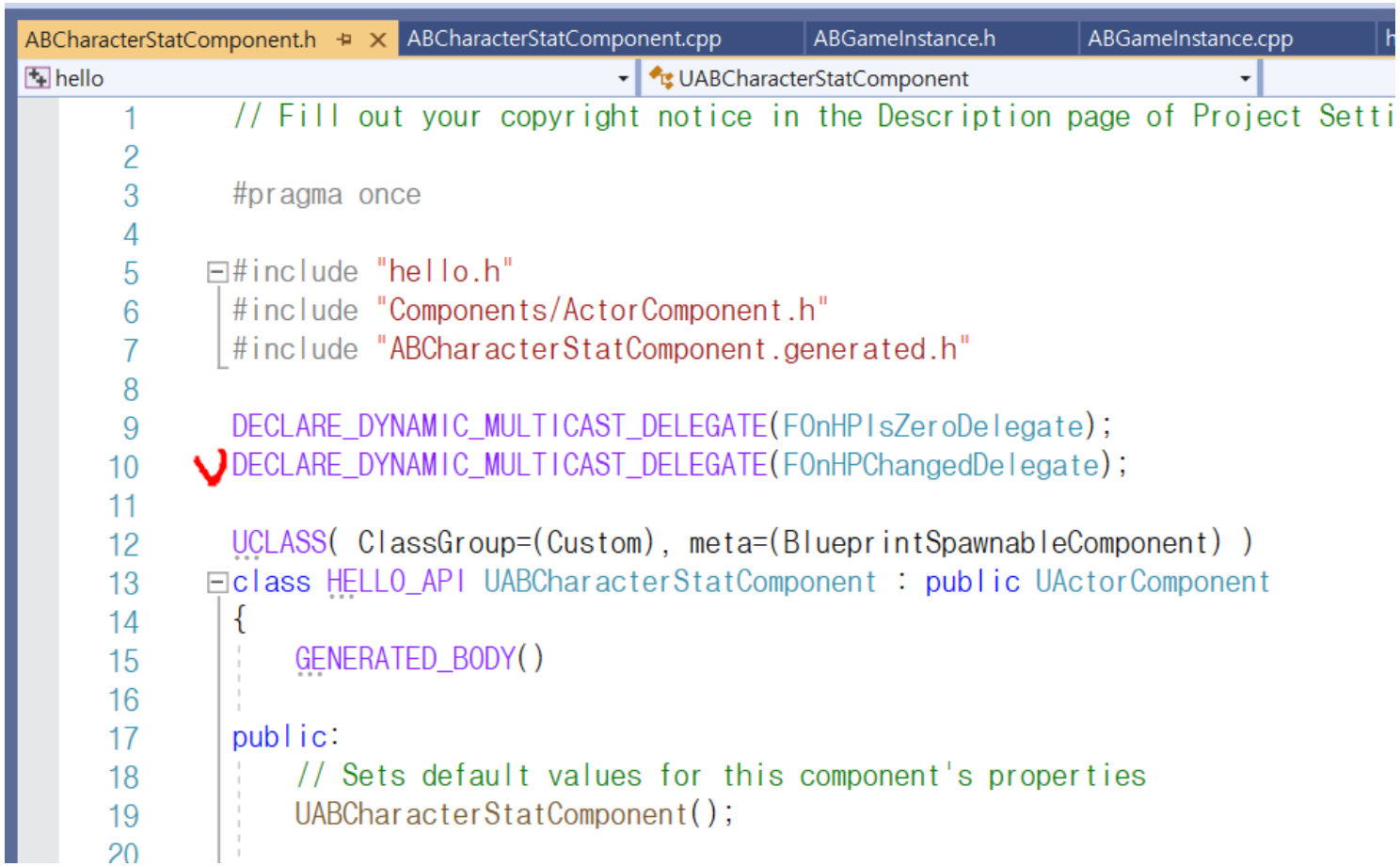
4.1 AttackCheck 함수로 넘어가서 CharacterStat의 GetAttack 함수를 호출한다.



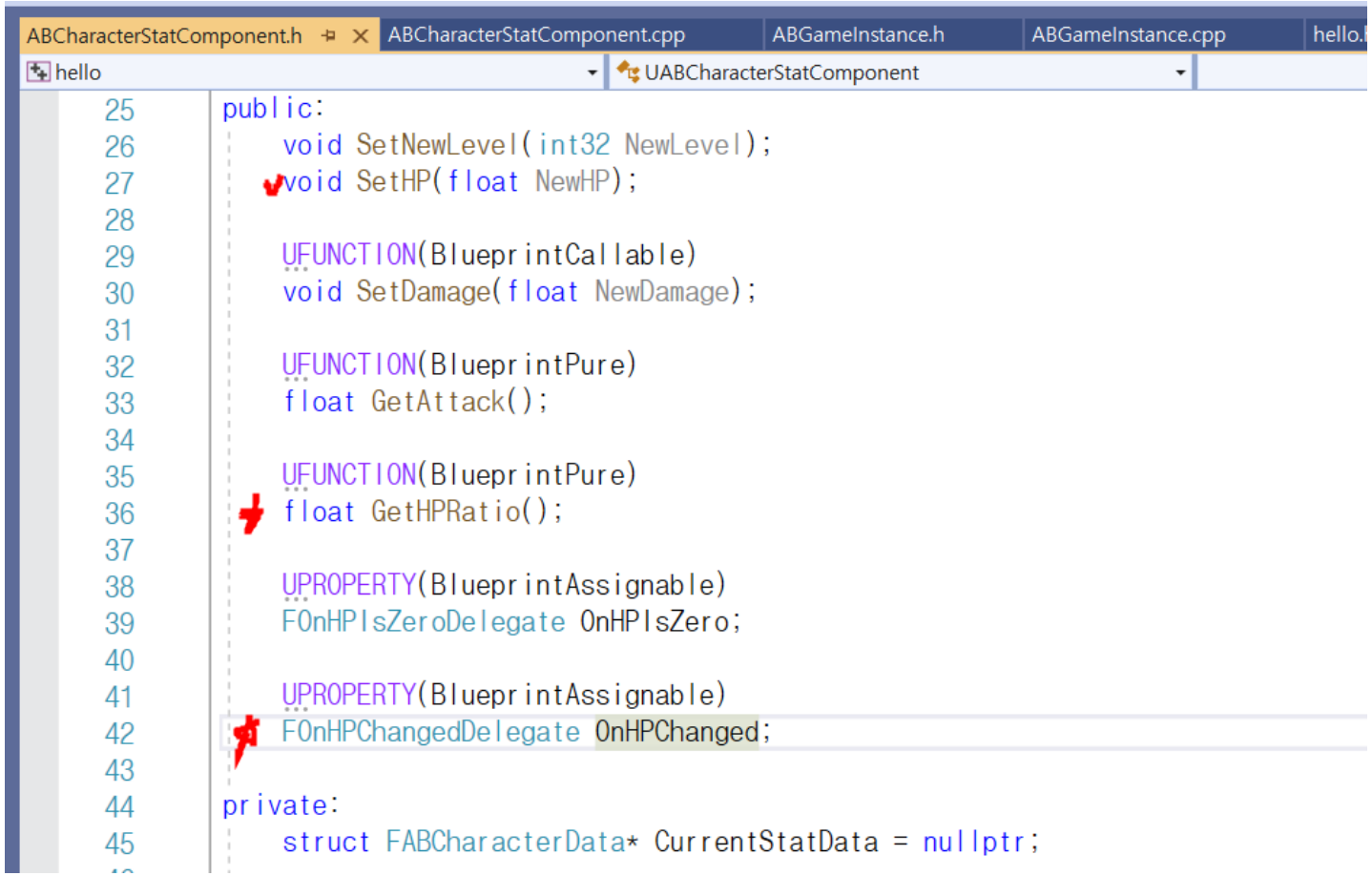
4.2 CharacterStat의 OnHPIsZero를 바인하고 함수를 생성한다.



4.3 OnHPisZero 함수로 넘어가서 죽음 처리를 한다.

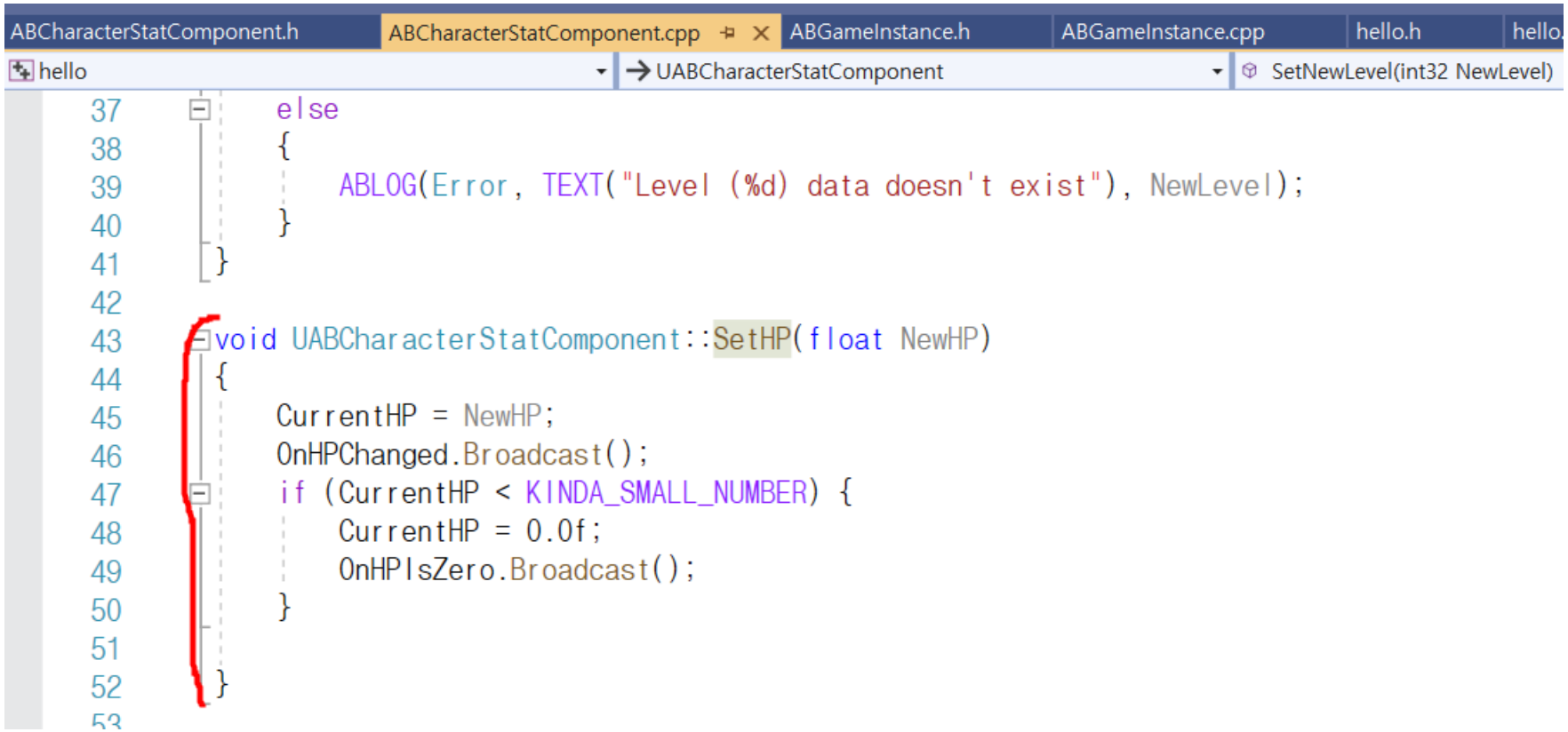


5. 다이나믹 델리게이트 OnHPChangedDelegate 선언

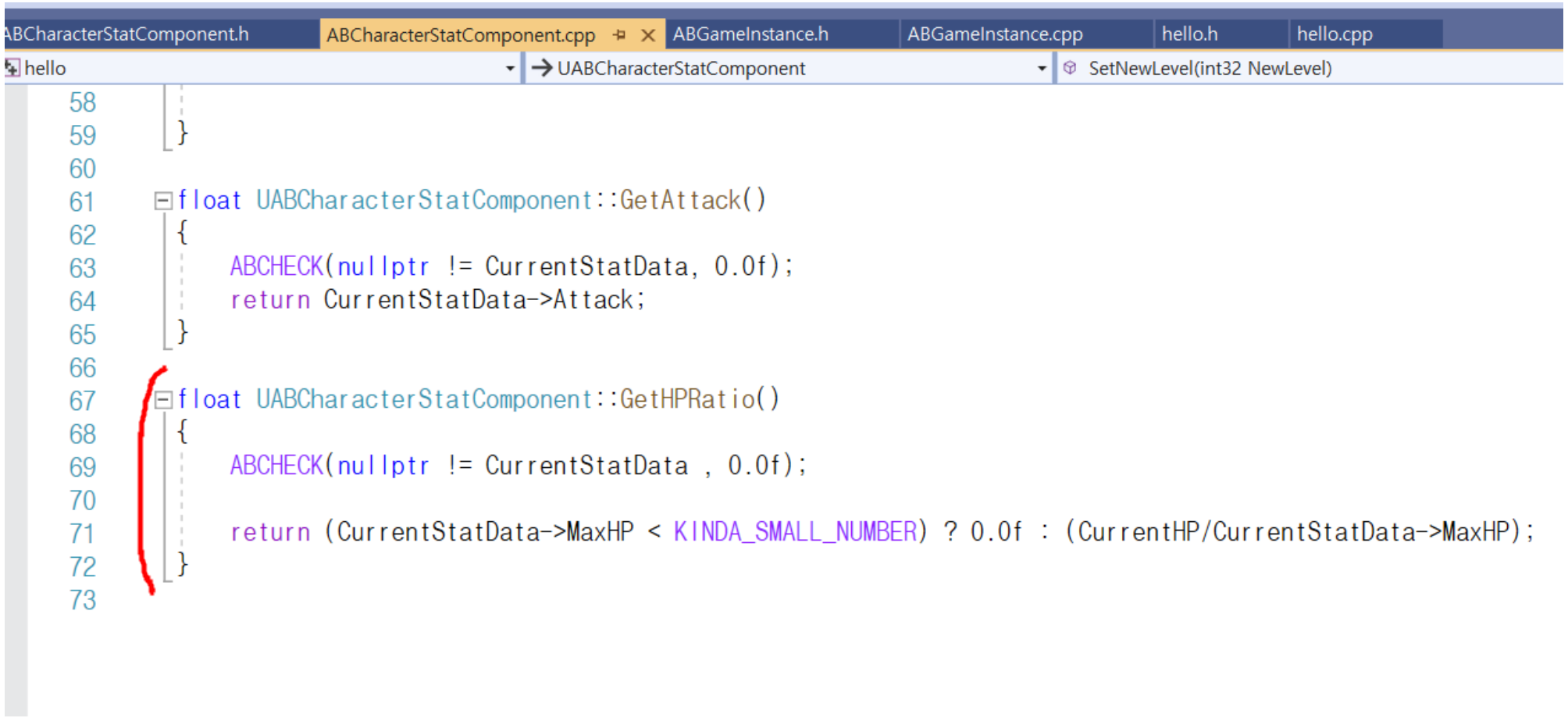


5.1 SetHP, GetHPRatio 함수 선언, OnHPChanged를 선언

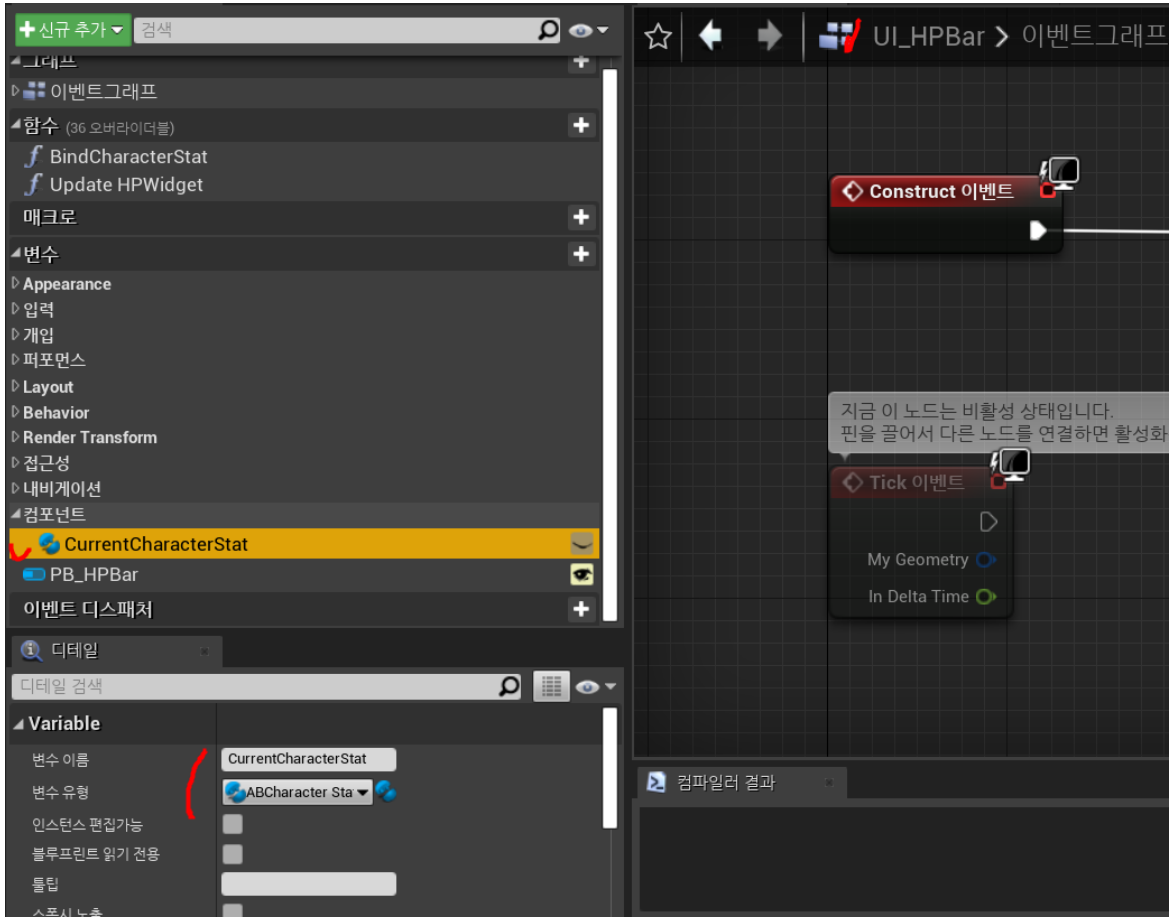
5.2 SetNewLevel 함수에 SetHP 함수 호출



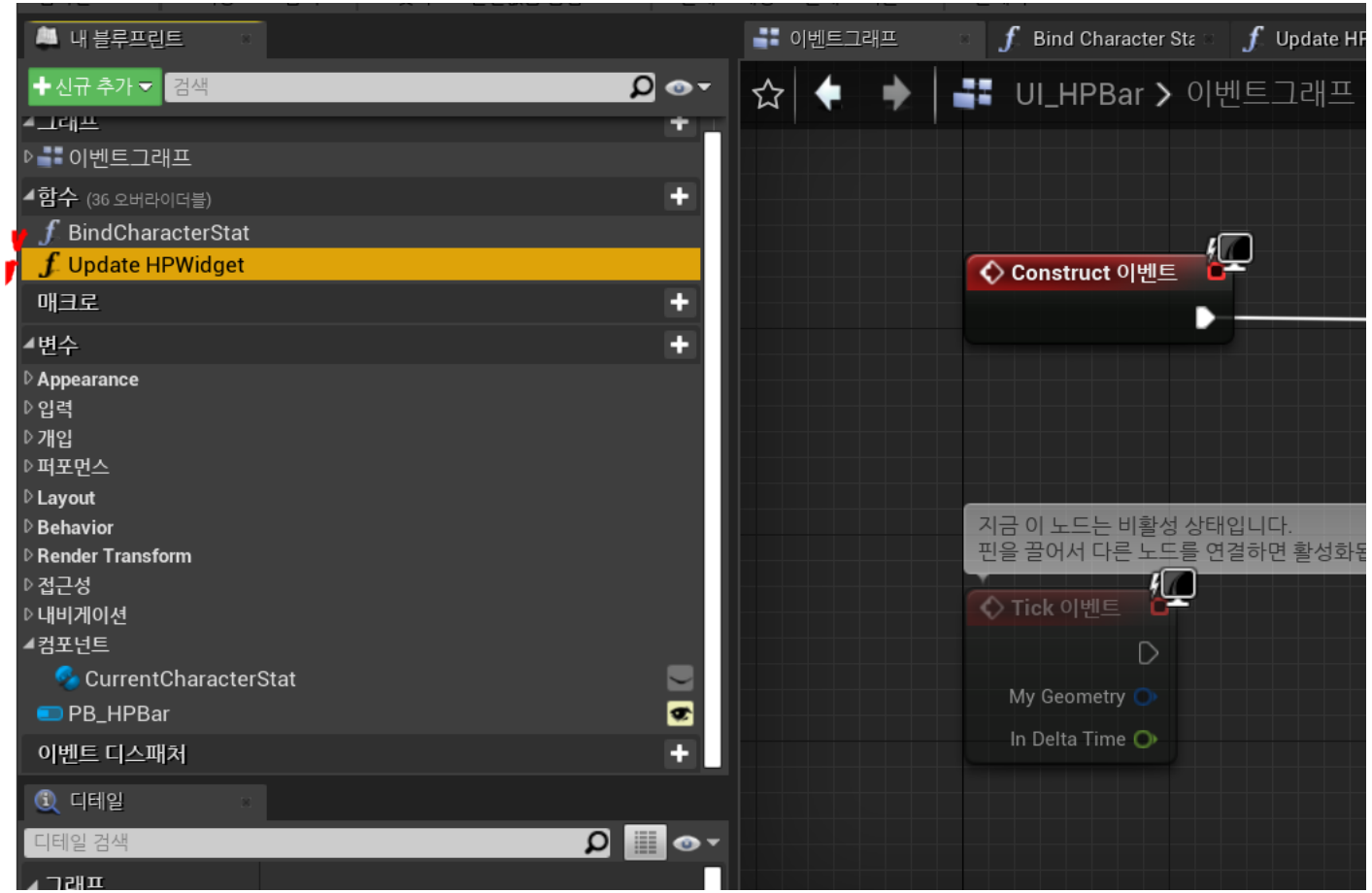
5.3 SetHP 함수 구현



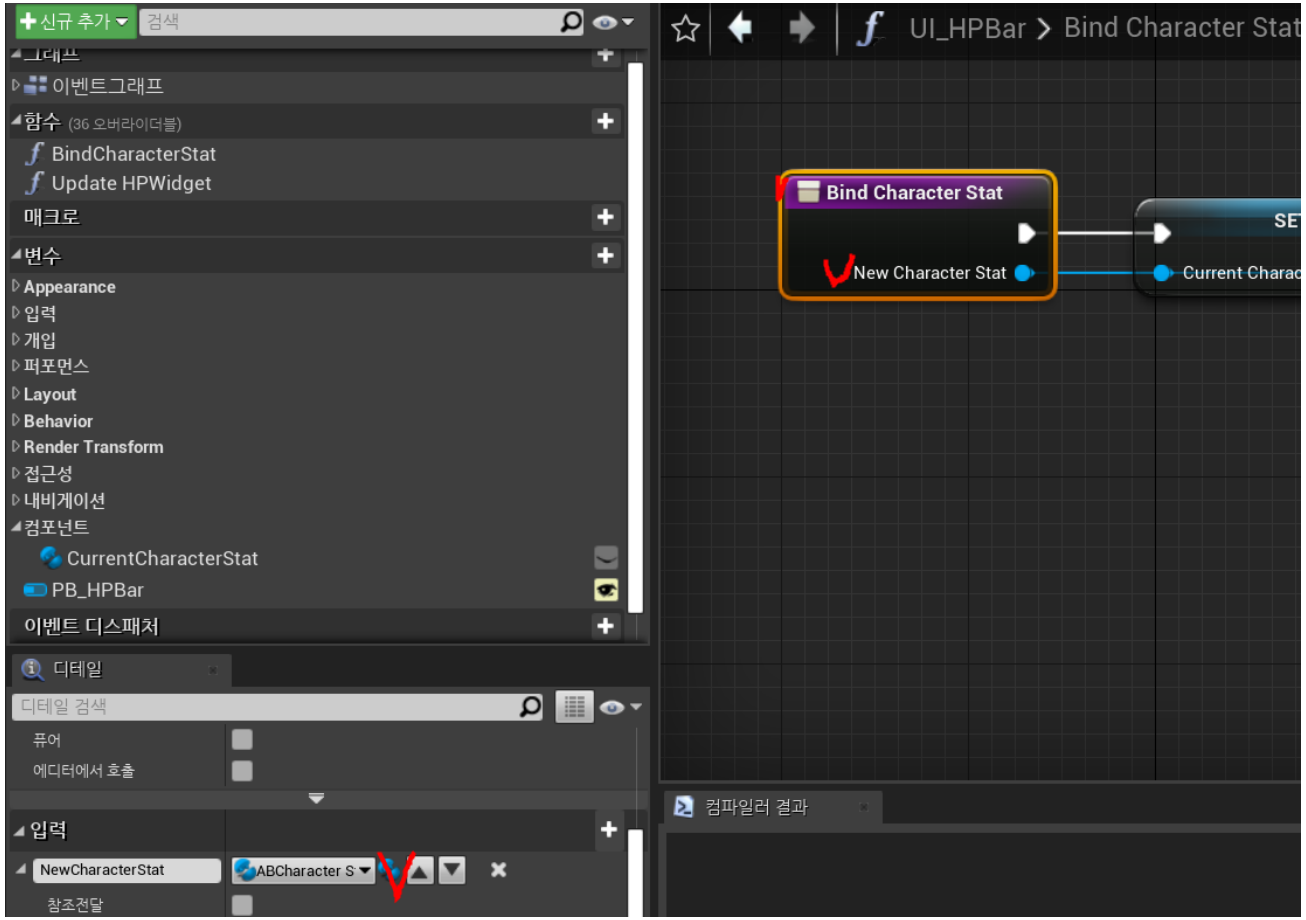
5.4 GetHPRatio 함수 구현



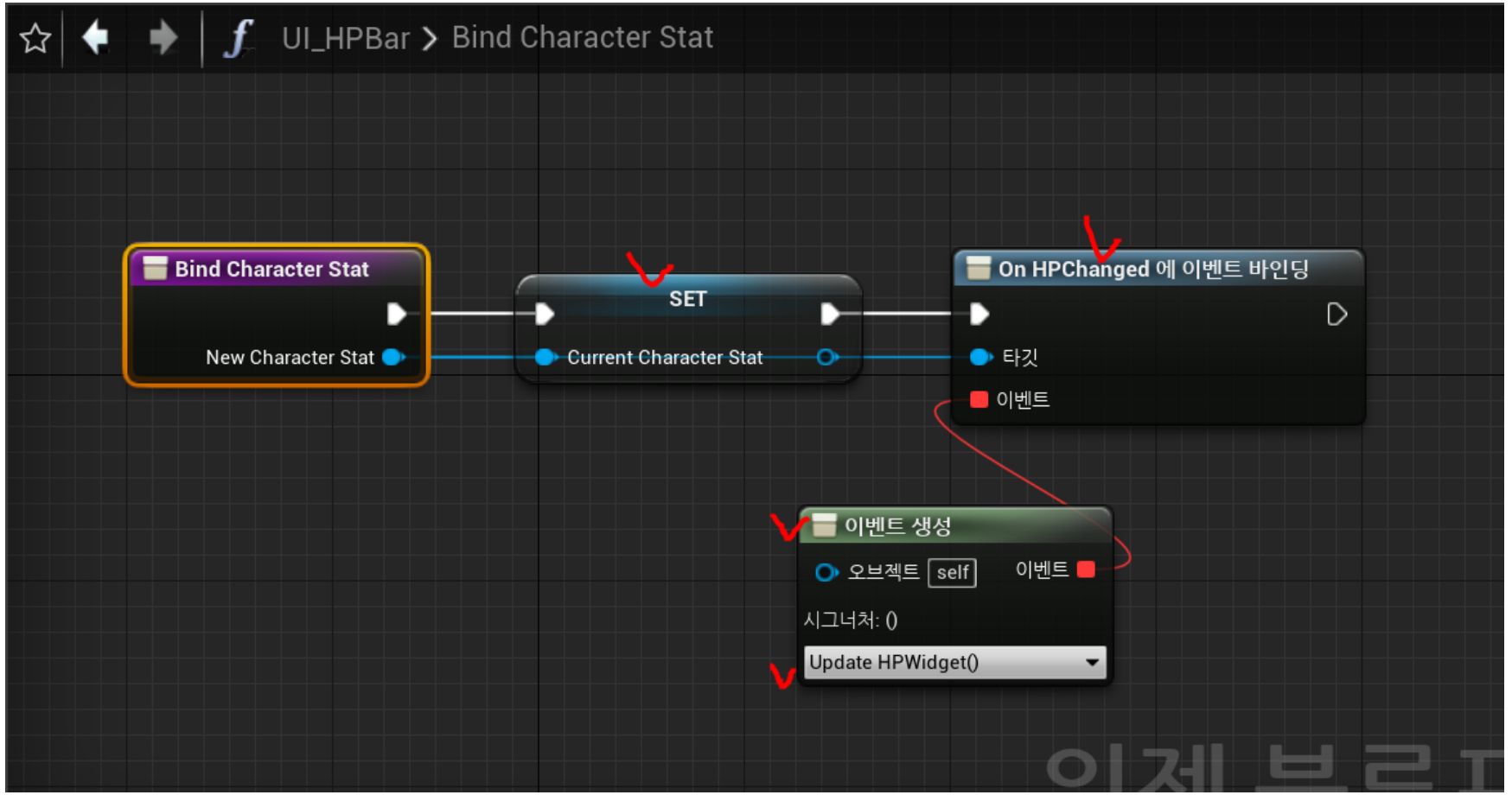
6. UI_HPBar에 들어가서 ABCharacterStatComponent 변수 CurrentCharacterStat 선언



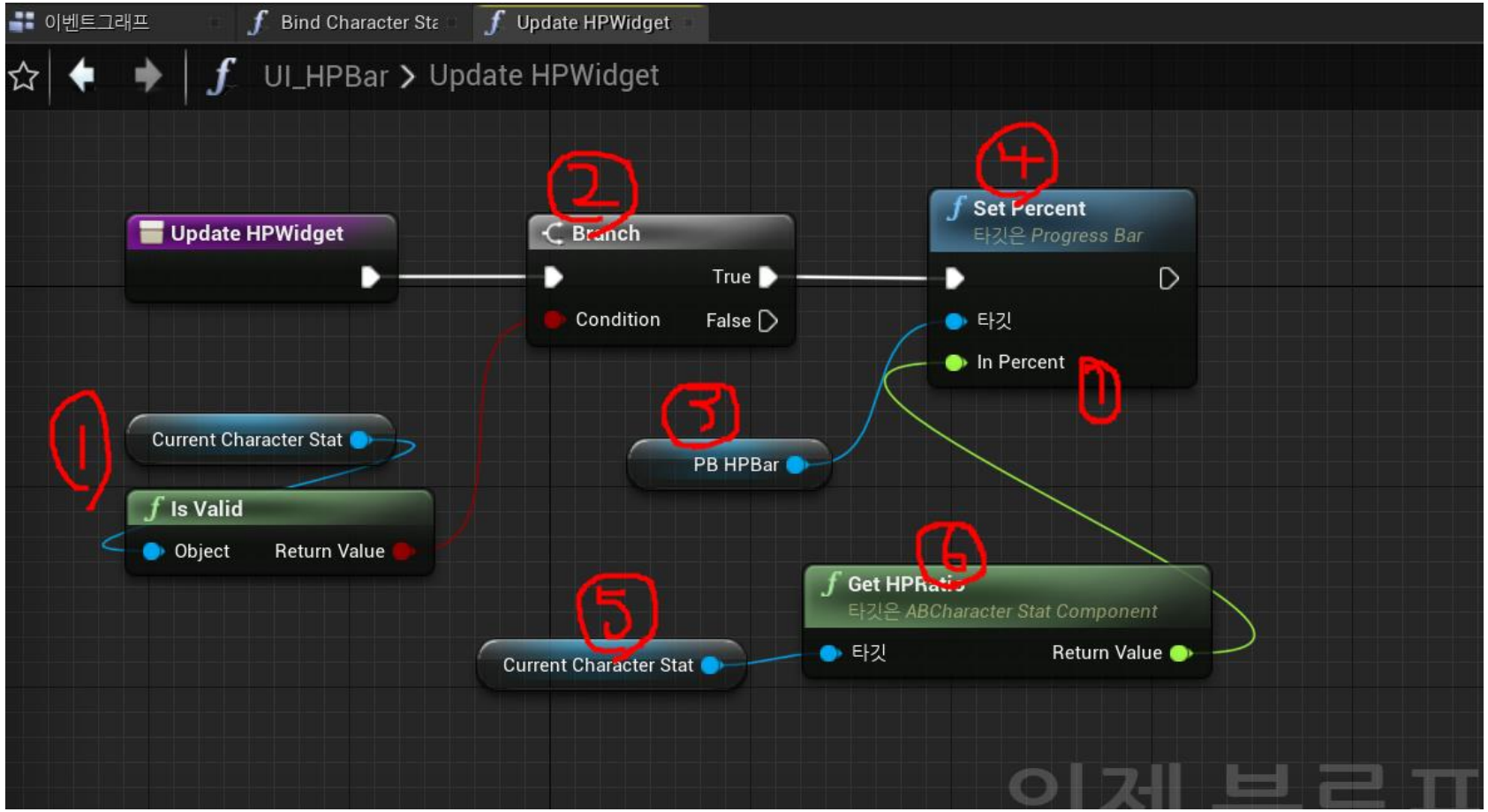
6.1 BindCharacterStat, UpdateHPWidget 함수 선언



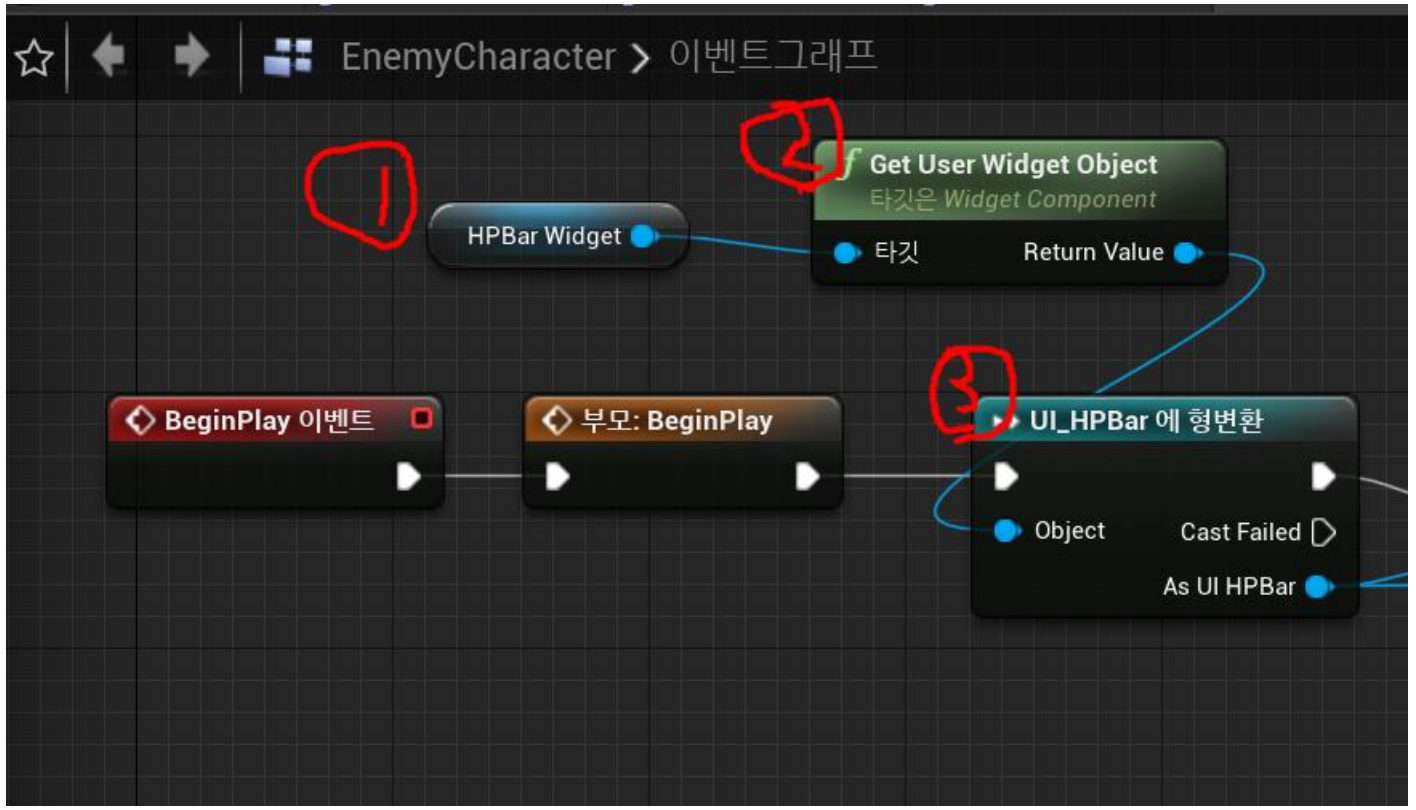
6.2 BindCharacterStat 함수에 NewCharacterStat 입력을 넣는다.



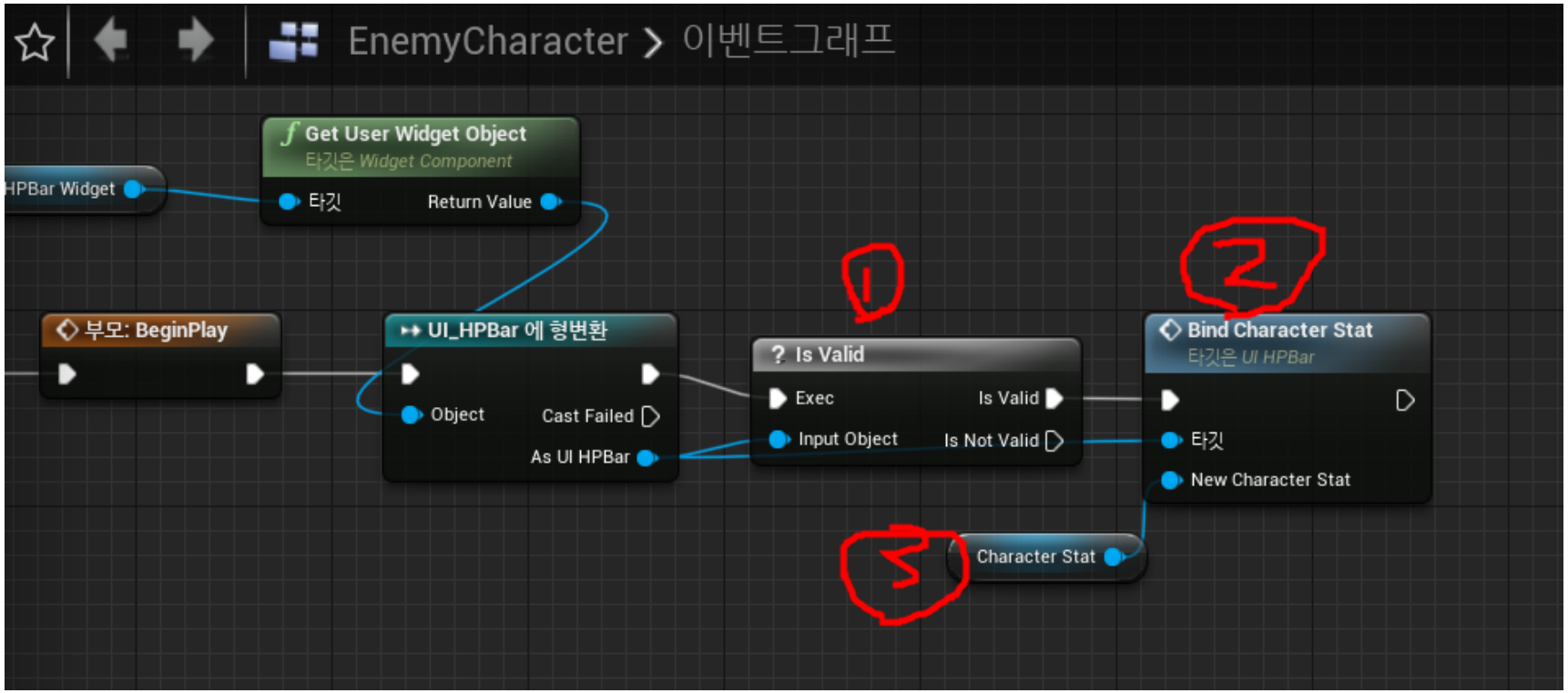
6.3 CurrentCharacterStat에 NewCharacterStat을 연결한고, OnHPChanged를 바인딩하고, UpdateHPWidget함수를 연결한다.



6.4 UpdateHPWidget 함수에 HP의 Percent를 바꾸는 기능을 구현한다.



7. EnemyCharacter에 들어가서 HPBarWidget을 UI_HPBar로 캐스팅한다.



7.1 UI_HPBar가 유효하면 UI_HPBar의 BindCharacterStat 함수를 호출하고, CharacterStat을 NewCharacterStat에 연결한다.