Homework

1. What is wrong with the following function definition ? How can we fix it ?  
     
   std::string& get\_hello()  
   {  
    std::string str = “Hello“;  
    return str;   
   }  
     
   The variable str was created inside the get\_hello() function scope and it is returning a reference of(&), but after the function out of the execution that address don’t exist more. We can fix it removing & from return function of get\_hello(), the following code displays:  
   std::string get\_hello()  
   {  
    std::string str = “Hello“;  
    return str;   
   }  
   The code above return a copy to string; Another option is to use static.  
   std::string get\_hello()  
   {  
    static std::string str = “Hello“;  
    return str;   
   }  
   $ objdump -s -j .rodata homework02  
   <https://en.wikipedia.org/wiki/Data_segment>