Consider the following Python code fragment and answer Question 1 and Question 2 below:

```python
num = int(input("Please, enter an integer: "))
if (num < 10):
    print("num is just 1 digit long.")
else:
    if (num < 100):
        print("num is just 2 digit long.")
    else:
        print("num has more than 2 digits.")
```

1. For which input int values will the code fragment above print "num is just 2 digit long."

   A. Any int value between -9 and 9
   B. Any int value from -10 to -99
   C. 0
   D. Any int value from 10 to 99
   E. None of the above

2. For which input int values will this code fragment produce a semantic error?

   A. Any int value between -9 to 9
   B. Any int value from -10 to -99
   C. 0
   D. Any int value from 10 to 99
   E. None of the above

3. What does the following code fragment print?

   ```python
   print("!.?blah".strip("!.h"))
   ```

   Answer: ?bla

4. What does the following code fragment print?

   ```python
   for item in ["0", "1", "2"]:  
       print(item)
   ```

   Answer: 0
          1
          2

5. What does the following code fragment print?

   ```python
   pico = "pico"
   paco = "paco"
   poco = "poco"
   if pico+paco in ["pico", "paco", "pocopoco"]:
       print("It’s there!")
   else:
       print("Not it isn’t!")
   ```
6. Consider the following code fragment:

```python
isHappy = False
response = input("How are you today?").lower()
if response in ["good", "great", "awesome"]:
    isHappy = True
print(isHappy)
```

What would the output be if the user input was I feel good?

Answer: False

7. **Problem Statement:**

Write a **New Years Bot** that counts down from 10 to 1.

**Requirements:**
- It should use a `for` loop and each number should be on a new line.
- At the end of the countdown, it should output Happy new year!

Here is a sample output (or sample run) ->

[Sample output image]

**Question 7**
https://repl.it/repls/ShimmeringUntriedModem

8. **Problem Statement:**

Write a **Star Wars Bot** that decides if you can be on the Dark side, or the Light side.

To be a Dark Lord you need to like capes or the colour red. Otherwise the bot will recommend you to the Light side.

**Requirements:**
- Your bot should be robust to upper/lowercase answers of yes and no.
Here are 5 sample runs:

```
I will decide if you can join the Dark Side.
Is red your favourite color? yes
Do you like capes? yes
Dark side it is!
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? no
Do you like capes? no
Dark side it is!
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? no
Do you like capes? no
Light side, I see.
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? NO
Do you like capes? YES
Dark side it is!
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? asdf
Do you like capes? asdf
Light side, I see.
```

**Question 8**

[https://repl.it/repls/AbleSubtleCustomer](https://repl.it/repls/AbleSubtleCustomer)