Practice 3 – Independent work

Task 1. Basic level

Nikolai wrote the is_alive(health) function, which checks the health of the character in the game.

If it is equal to or less than zero, the function returns False, otherwise True.

Unfortunately, the function does not work, because the student made a number of mistakes in it.

Fix them and check the functionality of the program (a number is always passed as an argument).

```
def is_alive(health):
   if:
      health < 0
      False
   else:
      return true
```

Task 2. Basic level

Make up the season_events(number_of_month) function, which takes the number of the month of your birth and, depending on the season, prints the following output:

"You were born in <MONTH_NAME>. <EVENT DESCRIPTION_>".

As a DESCRIPTION of the EVENTS, there will be a characteristic of the season:

- for winter, "White snow fell outside the window",
- for spring, "Birds sang beautiful songs",
- for summer, "The sun shone brighter than ever",
- for autumn, "The harvest was incredible".

It is important to take into account that users can enter any type of data as an argument (do not get caught on this and warn that "You need to enter the real number of the month").

Task 3. Advanced level

Anatoly's luck has been very bad in the last month.

His password was hacked 3 times.

So he thought about what was wrong with the question of making passwords.

In order not to strain more and not get into trouble again, the young man decided to write a function in Python that would check his password for reliability.

Anatoly's password requirements are as follows (he carefully studied the recommendations of experts):

1) Length – 8 characters (if less, it is easier to crack, and if longer, it is difficult to remember)

2) The password must contain uppercase letters, lowercase characters, numbers and special characters (from the list "*-#"; other special characters are not allowed, since Anatoly cannot remember them).

Help the guy to create a check_pass (pswd) function that will check the password for compliance with the requirements.

If the password is correct, "The password is perfect" will be printed, and in other cases all the errors that Anatoly made will be listed (to present a list of errors, create the variable err in the form of a dictionary).