String Problem 7

Write a program to find the first position of a given character in a string

- · ask the user to enter a string
- · ask the user to enter a single character
- report the position that the character first appears in the string
- if the character does not appear, report that it does not appear

Algorithm 1 – built in function

```
word = input("Enter a word: ")
char = input("Enter the character to find: ")
pos = word.find(char)
if pos == -1:
    print("Does not appear")
else:
    print(pos + 1)
```

Algorithm 2 – for loop

```
word = input("Enter a word: ")
      char = input("Enter the character to find: ")
      pos = -1
3
      foundIt = False
      for i in range(0, len(word)):
          if word[i] == char:
6
               if foundIt == False:
7
                   foundIt = True
8
                   pos = i + 1
9
      if pos == -1:
10
          print("Not found")
11
      else:
12
          print(pos)
13
```

Algorithm 3 – while loop

```
word = input("Enter a word: ")
      char = input("Enter the character to find: ")
2
      pos = -1
3
      foundIt = False
4
      i = 0
5
      while foundIt == False and i < len(word):
6
          if word[i] == char:
7
               foundIt = True
8
              pos = i + 1
9
          i = i + 1
10
      if pos == -1:
11
          print("Not found")
12
      else:
13
          print(pos)
14
```