

### Q1

Python is a statically typed programming language

- True
- False

### Q2

```
x = 'Hello world'
print('ello' in x.upper())
```

The output will be

- True
- False

### Q3

Get name, age and gender as inputs from user. Try to get all 3 data at one shot instead of getting them separately. Use the concept of chained assignment. Validate all the data for non-emptiness. If any of the input entered by user is empty, give the user a warning to re-enter with valid data.

### Q4

From the data got in Q3, check whether name and gender has only alphabetic characters, and age has only numeric characters. Give a warning to user if any of checks fails.

### Q5

Write a Python program to check whether an alphabet is a vowel or consonant.

Note : a,e,i,o,u are vowels

Expected input:

Input a letter of the alphabet: k

Expected output:

k is a consonant.

### Q6

Get a filename from user and print the extension of file

Sample : abcname.java

Output : the file entered is a java file

### Q7

Convert a string to number,boolean,float,complex and vice-versa and see which one works and which one does not. This is for understanding the usage of type-casting functions.

### Q8

```
x = 'Avengers superheroes are Iron Man, Captain America, Thor, Black Widow, Hawkeye and Hulk'
```

i) In the above string, substitute all occurrences of letter s with capital S and letter w with capital W

ii) Get only the names of superheroes from the string into a list. The list should contain only the names mentioned in the string and not any other words.