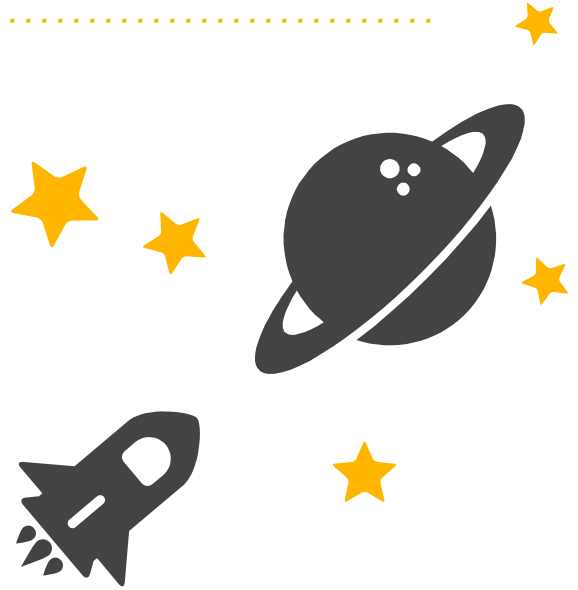


# Self-test

This is a practice quiz. It's not for marks.  
Try to do it without looking at your notes.



# Theory and Understanding

5:00





# Question 1

What would the following code output?

```
pickle = 10
foods = ["Burger", "Taco", "Tempura"]
for i in range(len(foods)):
    pickle = pickle - 1
print(pickle)
```

# Question 2

What would the following code output?

```
numRoses = 10
isBlue = True
isRed = True

if isBlue:
    numRoses += 5
    isRed = False
if isRed:
    numRoses += 10
else:
    numRoses -= 10
if numRoses <= 10:
    print(numRoses)
```



# Question 3

```
score = 0
weights = [1, 2, 0]
for weight in weights:
    if weight != 1:
        score += weight*int(input())
```

What would **score** be at the end of the **2nd** iteration,  
if the user tries to input: **5** <return> **2** <return> **3** <return>

**Coding**

# Question 4

Write an **Olympic Judging** program that outputs the average scores from 5 different judges.

Each score is out of 10 points maximum. Half points are allowed (e.g. 7.5)

The program should take 5 inputs and output the final average score.

Here are 2 sample runs:

```
Judge 1: 5.5
Judge 2: 10
Judge 3: 7
Judge 4: 8.5
Judge 5: 9
Your Olympic score is 8.0
>
```

```
Judge 1: 0
Judge 2: 3
Judge 3: 2.5
Judge 4: 1
Judge 5: 0
Your Olympic score is 1.3
>
```





# Question 5

A refugee settlement has two wells for water. Each day your team samples the water quality in each well.

Write a program which:

- Reads a space separated list of water samples for the first well. Lower #'s mean better water.
- Reads in samples for well 2.
- For each day, print out which well had better water quality.

Here are 2 sample runs:

```
Enter well 1's water quality: 2.1 3.3 5.1 9.1 3.5
Enter well 2's water quality: 1.0 5.5 5.1 3.0 5.1
Day 1: Well 1 is better.
Day 2: Well 2 is better.
Day 3: Quality the same.
Day 4: Well 1 is better.
Day 5: Well 2 is better.
```

```
Enter well 1's water quality: 1.5
Enter well 2's water quality: 2.2 2.5
ERROR: Lists must be the same length.
```

5:00





# Question 6

Write a **Future Age** program that asks your age and outputs how old you'll be 30 years from now.

Here are 2 sample runs:

```
How old are you right now? 35  
In 3 decades, you will be 65.
```

```
> |
```

```
How old are you right now? 10  
In 3 decades, you will be 40.
```

```
> |
```

