

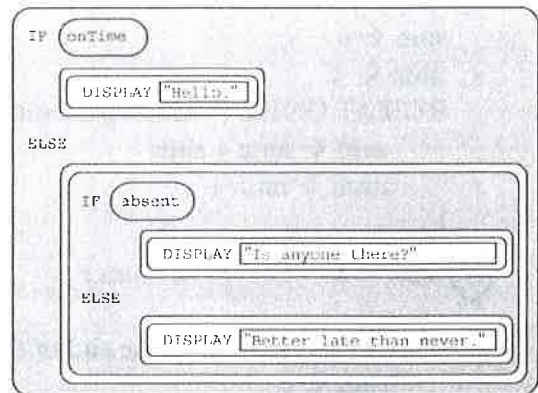
## Exercises with Pseudo-Code Unit 3

Name \_\_\_\_\_

1. Consider the code segment :

If the variables onTime and absent both have values of true, what is displayed as a result of running this code piece?

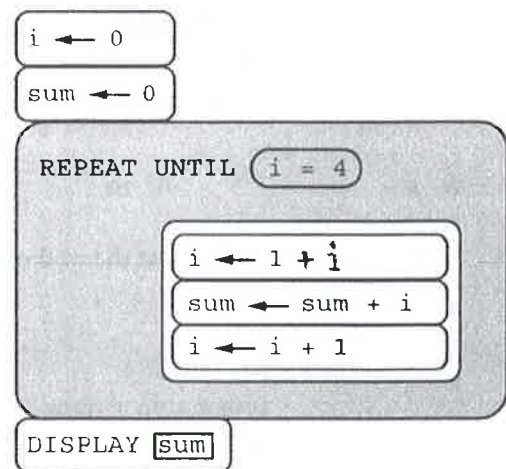
- a) Is anyone there?
- b) Hello.
- c) Hello. Is anyone there?
- d) Better late than never.



2. Consider the following code segment.

Which of the following best describes the result of running the program code?

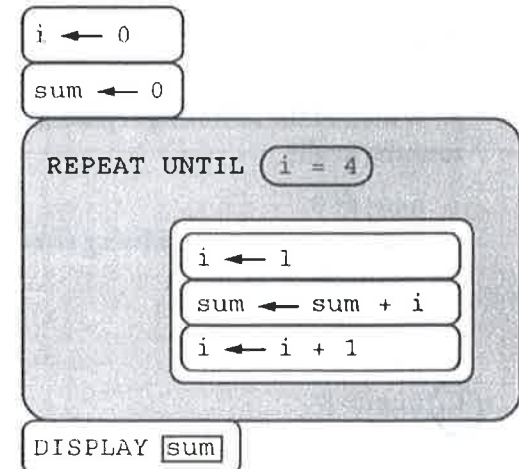
- (A) The number 2 is displayed.
- (B) The number 4 is displayed.
- (C) The number 6 is displayed.
- (D) Nothing is displayed; the program results in an infinite loop.



3. Consider the following code segment.

Which of the following best describes the result of running the program code?

- (A) The number 1 is displayed.
- (B) The number 6 is displayed.
- (C) The number 10 is displayed.
- (D) Nothing is displayed; the program results in an infinite loop.



4. What range of numbers is printed by this code segment?

a ← 3  
 b ← 10  
 x ← RANDOM( a, b )

- a) 3 through 10
- b) 4 through 9
- c) 3 through 9
- d) 0 through 10

5. Which of the following replacements for <missing condition> will result in sum being larger than 10 upon completion of the loop?

```
sum ← 0
num ← 5
REPEAT UNTIL ( <missing condition> ) {
    sum ← num + sum
    num ← num + 2
}
```

- A. num > 8      B. num > 9      C. num > 10      D. num > 20

6. What is sum holding at the end of this segment?

```
sum ← 0
num ← 1
REPEAT 5 TIMES {
    sum = sum + num
    num = num + 1
}
```

- A. 5      B. 10       C. 15      D. 21

7. What is num holding at the end of this segment?

```
sum ← 0
num ← 1
REPEAT 5 TIMES {
    sum = sum + num
    num = num + 1
}
```

- A. 0      B. 1       C. 6      D. 5

8. Which of the following replacements for <missing condition> will result in the loop body never running at all?

```
num ← 8
REPEAT UNTIL ( <missing condition> ) {
    num ← num + 3
}
```

- A. num > 3      B. num > 8  
 C. num = 8      D. num = 15

9. Which of the following replacements for <missing condition> will result in an infinite loop?

```
num ← 0
REPEAT UNTIL ( <missing condition> ) {
    num ← num + 3
}
```

- A. num > 8      B. num = 3      C. num < 8       D. num = 11