

Assignment: Mastering Python Dictionaries and Tuples

Coding Challenge

Create a dictionary to store details of 3 employees in an organization. Each employee should have the following details:

- **Name:** (String)
- **Age:** (Integer)
- **Department:** (String)
- **Skills:** (List of Strings)

Example:

```
employees = {  
  
    "emp1": {"name": "Alice", "age": 30, "department": "HR", "skills": ["Recruitment",  
"Communication"]},  
  
    "emp2": {"name": "Bob", "age": 25, "department": "IT", "skills": ["Python", "Networking"]},  
  
    "emp3": {"name": "Charlie", "age": 28, "department": "Finance", "skills": ["Accounting",  
"Excel"]}  
}
```

Instructions:

1. Create the dictionary as shown above.
2. Add a new skill to one of the employees (e.g., "Leadership" to "Alice").
3. Write a program to print the details of all employees in a user-friendly format.

Multiple Choice Questions (MCQs)

Question 1

What is a key feature of dictionaries in Python?

- a) They are immutable.
 - b) They store data in key-value pairs.
 - c) They cannot grow dynamically.
 - d) They are always ordered.
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Question 2

Which of the following can be used as keys in dictionaries?

- a) Lists
- b) Dictionaries
- c) Tuples
- d) Sets

Question 3

What will be the output of the following code?

```
colors = ("red", "green", "blue")
```

```
print(colors[1])
```

- a) red
- b) green
- c) blue
- d) Error