

## Dictionary Assignment 1

**Note:** Dictionary for all the questions,

```
student_grade = {'Alice': 85, 'Bob': 90, 'Charlie': 78}
```

Q1: Write a Python program to create a dictionary named `student_grades` with the following key-value pairs: 'Alice': 85, 'Bob': 90, 'Charlie': 78 and also print the dictionary.

Q2: Write a Python program to access and print the grade of 'Bob' from the given dictionary.

Sample Output: 90

Q3: Write a Python program to add a new student 'David' with a grade of 92 to the given dictionary and print it.

Output: {'Alice': 85, 'Bob': 90, 'Charlie': 78, 'David': 92}

Q4: Write a Python program to update the grade of 'Charlie' to 80 in the given dictionary and print the dictionary.

Output: {'Alice': 85, 'Bob': 90, 'Charlie': 80, 'David': 92}

Q5: Write a Python program to delete the student 'David' from the given dictionary using the del keyword, also print the updated dictionary.

Output: {'Alice': 85, 'Bob': 90, 'Charlie': 80}

Q6: Write a Python program to check if the key 'Eve' is present in the given dictionary, if not then print "Eve is not present in the dictionary".

Q7: Write a Python program to print all the student names in the given dictionary.

Output:  
Alice  
Bob  
Charlie

Q8: Write a Python program to print all the grades in the given dictionary.

Output: 85  
90  
80

Q9: Write a Python program to print all key-value pairs in the given dictionary in the format "Student: Grade".

Alice: 85      Output:  
Bob: 90  
Charlie: 80

Q10: Write a Python program to clear all elements from the given dictionary.

Q11. Write a python program to count, how many key-value pairs are present in the dictionary by traversing on the given dictionary.

```
student_grade = {'Alice': 85, 'Bob': 90, 'Charlie': 78}
```

Q12. Write a Python program to check if a dictionary is empty or not.

```
D = {}
```

Output: True

Q13. Write a Python program to access dictionary key's element by index (user input).

```
student_grade = {'Alice': 85, 'Bob': 90, 'Charlie': 78}
```

Sample Input: 2

Expected Output: bob