Assignment No:13

Q.1.#1. Python Program to Add a Key-Value Pair to the Dictionary

```
dict = {
   "name": "Pragati",
   "age": 22,
   "address": "Pune"}
print("Original Dictionary:", dict)

dict["gender"] = "female"
print("Updated Dictionary:", dict)
```

Q.2.#2. Python Program to Concatenate Two Dictionaries Into One

```
dict1 = {"p": 1, "q": 2}
dict2 = {"r": 3, "s": 4}

merged_dict = {**dict1, **dict2}
print("Concatenated Dictionary:", merged_dict)
```

Q.3.#3. Python Program to Check if a Given Key Exists in a Dictionary or Not

```
dict = {
   "name": "Pragati",
   "age": 22,
   "address": "Pune"
}

key_to_check = "age"

if key_to_check in dict:
   print(f"Key '{key_to_check}' exists in the dictionary.")
else:
   print(f"Key '{key_to_check}' is not exist in the dictionary.")
```

Q.4.#4. Python Program to Generate a Dictionary that Contains Numbers (between 1 and n) in the Form (x,x*x).

```
n = int(input("Enter the value of n: "))
squared_dict = {}

for x in range(1, n + 1):
   squared_dict[x] = x * x

print("Generated Dictionary:", squared_dict)
```

Q.5#5. Python Program to Sum All the Items in a Dictionary

```
dict = {
   'a': 100,
   'b': 20,
   'c': 56
}

total = 0
```

```
for key in dict:
    total = total + dict[key]

print("Sum of all values:", total)
```

Q.6.#6. Python Program to Multiply All the Items in a Dictionary

```
dict = {
    'a': 5,
    'b': 6,
    'c': 9
}
product = 1

for key in dict:
    product = product * dict[key]

print("Product of all values:", product)
```

Q.7.#7. Python Program to Remove the Given Key from a Dictionary

```
dict = {
    'a': 1,
    'b': 2,
    'c': 3,
    'd': 4
}
key_to_remove = 'c'
new_dict = {}

for key in dict:
    if key != key_to_remove:
        new_dict[key] = dict[key]

print("Dictionary after removing the key:", new_dict)
```

Q.8.#8. Python Program to Count the Frequency of Words Appearing in a String Using a Dictionary

```
text = "i am pragati mhaske from data science and python batch pragati batch"

words = []
word = ""

for char in text:
    if char != " ":
        word += char
    else:
        if word != "":
            words.append(word)
            word = ""
if word != "":
    words.append(word)

freq_dict = {}
```

```
for w in words:
    found = False
    for key in freq_dict:
        if key == w:
            freq_dict[key] += 1
            found = True
            break
    if not found:
        freq_dict[w] = 1

print("Word Frequencies:")
for key in freq_dict:
    print(f"{key}: {freq_dict[key]}")
```