1) Accept 5 students name and store them in the dictionary by providing keys from 1 to 5 respectively.

```
students = {}
for i in range(1, 6):
    name = input(f"Enter name for student {i}: ")
    students[i] = name
print(students)
```

2) Create a dictionary with pairs soap:100, deo:300, perfume:400 and search product ignoring case.

```
products = {"soap": 100, "deo": 300, "perfume": 400}
item = input("Enter product name: ").lower()
print(products.get(item, "product not available"))
```

3) Define a class Student with members and store in dictionary with roll numbers.

```
class Student:
    def __init__(self, name, age, address, qualification):
        self.name = name
        self.age = age
        self.address = address
        self.qualification = qualification

    def __str__(self):
        return f"Name: {self.name}, Age: {self.age}, Address: {self.address}, Qualifica

students = {
    1: Student("A", 20, "City1", "BSc"),
    2: Student("B", 21, "City2", "MSc"),
    3: Student("C", 22, "City3", "BTech"),
    4: Student("D", 23, "City4", "MBA")
}

roll = int(input("Enter roll number: "))
print(students.get(roll, "student not found"))
```

4) Given a dictionary of students and their favourite colours perform operations.

```
people = {'Arham':'Blue','Lisa':'Yellow','Vinod':'Purple','Jenny':'Pink'}

# 1. Number of students
print(len(people))

# 2. Change Lisa's colour
people['Lisa'] = 'Green'

# 3. Remove Jenny
```

```
people.pop('Jenny', None)

# 4. Sort alphabetically by name
for name in sorted(people):
    print(name, people[name])
```