

## Paper Coding Worksheet

Chapter:	2
Unit:	10
Student Name:	Aman Dhaubanjari

1.

```
prime_list = [2, 3, 5, 7]

print("1st element of prime_list:", prime_list[0])
```

**output:**

1st element of prime\_list: 2

2.

```
prime_list = [2, 3, 5, 7]

prime_list.append(11)

print("Prime numbers after addition:", prime_list)
```

**output:**

Prime numbers after addition: [2, 3, 5, 7, 11]

3.

```
list1 = [3, 5, 7]

list2 = [2, 3, 4, 5, 6]

for i in list1:

    for j in list2:

        print(f"{i} x {j} = {i * j}")
```

**output:**

3 x 2 = 6  
3 x 3 = 9  
3 x 4 = 12  
3 x 5 = 15  
3 x 6 = 18  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
7 x 2 = 14  
7 x 3 = 21  
7 x 4 = 28  
7 x 5 = 35  
7 x 6 = 42

Chapter:	2
Unit:	11
Student Name:	Aman Dhaubanjari

**1.**

```
capital_dic = {"Korea": "Seoul", "China": "Beijing", "USA": "Washington DC"}  
print("Capital of Korea:", capital_dic["Korea"])
```

**output:**

Capital of Korea: Seoul

**2.**

```
fruits_dic = {"banana": 4000, "melon": 6500, "apple": 5000, "grape": 5300}  
for fruit, price in fruits_dic.items():  
    print(f"The price of {fruit} is {price} KRW.")
```

**output:**

The price of banana is 4000 KRW.

The price of melon is 6500 KRW.

The price of apple is 5000 KRW.

The price of grape is 5300 KRW.

Chapter:	2
Unit:	12
Student Name:	Aman Dhaubanjari

**1.**

True

False

True

('a', 'b', 'c', 'd', 'e')

[('a', 'b', 'c', 'd', 'e')]

('a', 'b', 'c')

**2.**

```
sales = (100, 121, 120, 130, 140, 120, 122, 123, 190, 125)
```

```
reduced_days = sum(1 for i in range(1, len(sales)) if sales[i] < sales[i - 1])
```

```
print(f"Days with reduced sales: {reduced_days}")
```

**output:**

Days with reduced sales: 3

Chapter:	2
Unit:	13
Student Name:	Aman Dhaubanjari

**1.**

```
list_array = [[10, 20], [30, 40], [50, 60]]
```

```
print("Value at index [1][0]:", list_array[1][0])
```

**output:**

Value at index [1][0]: 30

2.

```
matrix = [[i + j * 4 + 1 for i in range(4)] for j in range(4)]
```

```
for row in matrix:
```

```
    for element in row:
```

```
        print(element, end=" ")
```

```
    print()
```

**output:**

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

Chapter:	2
Unit:	14
Student Name:	Aman Dhaubanjari

1.

```
person_dic = {"Last Name": "Doe", "First Name": "David", "Company": "Samsung"}
```

```
for key, value in person_dic.items():
```

```
    print(f"{key}: {value}")
```

**output:**

Last Name: Doe

First Name: David

Company: Samsung

2.

```
items = {"Coffee": 7, "Pen": 3, "Paper cup": 2, "Milk": 1, "Coke": 4, "Book": 5}
```

```
input_item = input("Enter name of the item: ")
```

```
if input_item in items:
    print(items[input_item])
```

**output:**

Enter name of the item: Milk

1

Chapter:	2
Unit:	15
Student Name:	Aman Dhaubanjari

**1.**

```
student_tup = [('211101', 'David Doe', '010-1234-4500'), ('211102', 'John Smith', '010-2230-6540'),
('211103', 'Jane Carter', '010-3232-7788')]
students = [{sid: [name, phone]} for sid, name, phone in student_tup]
for student in students:
    print(student)
```

**output:**

```
{'211101': ['David Doe', '010-1234-4500']}
{'211102': ['John Smith', '010-2230-6540']}
{'211103': ['Jane Carter', '010-3232-7788']}
```

**2..**

```
student_tup = [('211101', 'David Doe', '010-1234-4500'), ('211102', 'John Smith', '010-2230-6540'),
('211103', 'Jane Carter', '010-3232-7788')]
students = [{sid: [name, phone]} for sid, name, phone in student_tup]
```

```
sid = input("Enter student ID: ")
for student in students:
    if sid in student:
        print(f"Name: {student[sid][0]} \nPhone number: {student[sid][1]}")
```

**output:**

Enter student ID: 211101

Name: David Doe

Phone number: 010-1234-4500

Chapter:	2
Unit:	16
Student Name:	Aman Dhaubanjari

**1.**

```
lst = ['apple', 'mango', 'banana']
```

```
s1 = set(lst)
```

```
print("s1 =", s1)
```

**output:**

```
s1 = {'banana', 'apple', 'mango'}
```

**2.**

```
{70, 40, 10, 50, 20, 60, 30}
```

```
{40, 30}
```

```
{10, 20}
```

```
{50, 20, 70, 10, 60}
```

```
False
```

```
False
```

```
False
```