



# **The University Of Mirpurkhas**

## **PITP Class Work (01-10-2025)**

### **1. Importing Modules**

**C.Q 1: Import the math module and calculate square root of a number.**

```
# Program to import math module and use sqrt()

import math

num = 16

print("Square root of", num, "is:", math.sqrt(num))
```

**C.Q 2: Import only a specific function from a module.**

```
# Program to import only factorial function from math

from math import factorial

print("Factorial of 5 is:", factorial(5))
```

**C.Q 3: Use the random module to generate a random number.**

```
# Program to generate random number between 1 and 10

import random

num = random.randint(1, 10)

print("Random number is:", num)
```



## 2. Creating Custom Modules

Steps:

1. Create a new file called **mymodule.py**.
2. Add some functions inside it.
3. Import it into another file.

### File 1: mymodule.py

```
# Custom module with two functions
```

```
def greet(name):
```

```
    return f'Hello, {name}!'
```

```
def add(a, b):
```

```
    return a + b
```

### File 2: main.py

```
# Program to use custom module
```

```
import mymodule
```

```
print(mymodule.greet("Ali"))
```

```
print("Sum is:", mymodule.add(10, 20))
```



### 3. Understanding Python Package Structure

Steps:

1. Create a folder called **mypackage**.
2. Inside it, create a file `__init__.py` (can be empty or used for initialization).
3. Add another file, e.g., `mathutils.py`.

**File: mypackage/mathutils.py**

```
# Package module for math utilities
```

```
def square(n):
```

```
    return n * n
```

```
def cube(n):
```

```
    return n * n * n
```

**File: main.py**

```
# Program to use custom package
```

```
from mypackage import mathutils
```

```
print("Square of 4:", mathutils.square(4))
```

```
print("Cube of 3:", mathutils.cube(3))
```