

## Programming Assignment-23

### Question 1:

Ans.

```
def is_symmetrical(num):  
    return str(num) == str(num)[::-1]
```

#### # Examples

```
print(is_symmetrical(7227)) # → True  
print(is_symmetrical(12567)) # → False  
print(is_symmetrical(44444444)) # → True  
print(is_symmetrical(9939)) # → False  
print(is_symmetrical(1112111)) # → True
```

### Question 2:

Ans.

```
def multiply_nums(numbers):  
    nums = map(int, numbers.split(", "))  
    result = 1  
    for num in nums:  
        result *= num  
    return result
```

#### # Examples

```
print(multiply_nums("2, 3")) # → 6  
print(multiply_nums("1, 2, 3, 4")) # → 24  
print(multiply_nums("54, 75, 453, 0")) # → 0  
print(multiply_nums("10, -2")) # → -20
```

### Question 3:

**Ans.**

```
def square_digits(num):  
    return int(''.join(str(int(digit) ** 2) for digit in str(num)))
```

*# Examples*

```
print(square_digits(9119)) # → 811181
```

```
print(square_digits(2483)) # → 416649
```

```
print(square_digits(3212)) # → 9414
```

### Question 4:

**Ans.**

```
def setify(lst):  
    return sorted(set(lst))
```

*# Examples*

```
print(setify([1, 3, 3, 5, 5])) # → [1, 3, 5]
```

```
print(setify([4, 4, 4, 4])) # → [4]
```

```
print(setify([5, 7, 8, 9, 10, 15])) # → [5, 7, 8, 9, 10, 15]
```

```
print(setify([3, 3, 3, 2, 1])) # → [1, 2, 3]
```

### Question 5:

**Ans.**

```
def mean(num):  
    digits = [int(d) for d in str(num)]  
    return sum(digits) // len(digits)
```

*# Examples*

```
print(mean(42)) # → 3
```

```
print(mean(12345)) # → 3
```

```
print(mean(666)) # → 6
```