

CBSE 083 PYTHON
ANSWER KEY MOCK TEST 2

Max Marks: 25 Total Time: 60 Minutes

Exam Code: **CS2023-12-02**

Compiled by: Swaroop Acharjee (9674507568)

SECTION A

1. **False:** A list is a mutable data type.
2. **123abc** is an invalid identifier because the name of the identifier cannot start with a number. **g@mail** is an invalid identifier because the name of the identifier cannot contain any special character except **_** (underscore).
3. **r+.**
4. Option (d) Statement i and iii
Reason:
Statement i: `tup[:-1] => tup[0:4]` (positive index of -1 is 4)
Statement ii: `tup[0:5]`
Statement iii: `tup[0:4]`
Statement iv: `tup[-4:] => tup[1:5]` (positive index of -4 is 1)
Hence, Statement i and iii, produces the same output.
5. **string**
6. **INSERT**
7. **Option a:** Both A and R are true and R is the correct explanation of A.
8. **Option a:** Both A and R are true and R is the correct explanation of A.

SECTION B

1. Correct SQL queries:
 - a. CREATE TABLE STOCK
(
 item_no INTEGER PRIMARY KEY,
 item VARCHAR(200),
 dcode INTEGER,
 qty I INTEGER CHECK(qty >= 0),
 unit_price INTEGER CHECK(unit_price >= 0),
 stock_date DATE
);
 - b. SELECT * FROM STOCK ORDER BY stock_date;
 - c. SELECT item_no, item_name FROM STOCK WHERE unit_price > 15;
 - d. SELECT * FROM STOCK WHERE dcode == 102 and item like 'E%';
 - e. SELECT dcode, max(unit_price) FROM STOCK GROUP BY dcode;
 - f. INSERT INTO STOCK VALUES
 (5010, 'Fountain Pen', 111, 45, 58, '02-08-08');
 - g. UPDATE STOCK SET unit_price = unit_price*1.10;

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- h. `SELECT * FROM STOCK WHERE item like '%ball%';`
- i. `SELECT * FROM STOCK WHERE stock_date <= '01-01-2010';`
- j. `SELECT * FROM STOCK WHERE unit_price > 15;`

2. Answers of the sub-part:

a. csv files

b. import csv

```
def add_garment():  
    file = open("garment.csv", mode="a")  
    csv_writer = csv.writer(file)  
  
    garment_id = input("Enter the garment id: ")  
    garment_type = input("Enter the garment type: ")  
    gender = input("Enter the gender: ")  
    cost = input("Enter the cost: ")  
  
    record = [garment_id, garment_type, gender, cost]  
  
    csv_writer.writerow(record)  
    print("The record has been written successfully!!")  
  
    file.close()  
  
# Method Invocation  
add_garment()
```

c. import csv

```
def show_garment():  
    file = open("garment.csv", mode='r')  
    csv_reader = csv.reader(file)  
  
    for row in csv_reader:  
        if row[1] == 'silk':  
            print(row)  
    file.close()  
  
# Method Invocation  
show_garment()
```

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```
3. def count_char():
    file = open("para.txt", mode='r')
    text = file.read()

    freq = { "count_c": 0, "count_e": 0}

    for char in text:
        if char.lower() == 'c':
            freq["count_c"] += 1
        elif char.lower() == 'e':
            freq["count_e"] += 1
    print(freq)
    file.close()
# Method Invocation
count_char()

4. from typing import List

def manipulate_list(my_list: List) -> None:
    for i in range(len(my_list)):
        number = my_list[i]
        my_list[i] = sum([int(digit) for digit in str(number)])

# Method Invocation
x = [123, 45, 678, 9987]
print(x)
manipulate_list(x)
print(x)

5. file = open("emp.dat", mode="rb")
try:
    while True:
        record = pickle.load(file)
        if record[2] >= 7500:
            print(record)
except:
    print("No more records!!")
file.close()
```

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6. The explanation is given below:

0	1	2	3	4	5	6	7	8	9	10	11	12	13
p	y	t	h	o	n		p	r	o	g	r	a	m
-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

Line 1:

```
my_str[3:5]
    start_index = 3
    end_index + 1 = 5 => end_index = 4
    step = 1
    Indices considered: 3, 4
    Output: ho
```

```
my_str[-10] = o
print(my_str[3:5], my_str[-10], sep="*")
```

Final output: ho*o

Line 2:

```
my_str[5:]
    start_index = 5
    end_index + 1 = 14 (Default value, length of the string)
    end_index = 13
    step = 1 (Default value 1)
    Indices considered: 5, 6, 7, 8, 9, 10, 11, 12, 13
    Output: n<space>program
```

```
my_str[-2:8]
    start_index = -2 => 12
    end_index + 1 = 8 => end_index = 7
    step = 1
    Indices considered: None, because it is not possible to travel
    from 12th index to 7th index with step value 1.
```

Output: None

```
print(my_str[5:], my_str[-2:8], sep="@")
```

Final Output: n<space>program@

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7. If the value of y is given as zero, this is going to cause a **ZeroDivisionError** error.

Way 1:

```
x = int(input("Enter the value of x: "))
y = int(input("Enter the value of y: "))
try:
    z = x/y
    print(f"The value of z: {z}")
except ZeroDivisionError:
    print("Value of y cannot be zero!!")
```

Way 2:

```
x = int(input("Enter the value of x: "))
y = int(input("Enter the value of y: "))
if y != 0:
    z = x/y
    print(f"The value of z: {z}")
else:
    print("Value of y cannot be zero!!")
```

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