

01-11-20

1st term Examination

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①

Computer Science

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Past - B

XII-B

20

I

1)

dump ()

2)

Self helps us to access attributes and methods in class.

3)

The output of this program is ;

~~'SCHOOLCO'~~ 'SCHOOL66^bcom'

4)

Data structure is a particular way of arranging data in computer to use it effectively. Stack is ordered list where insertions and deletions happen at same end whereas queue is ~~open at both end~~ used to insert data from one end and delete data from the other end.

5)

The 'w' mode implies that file is used to write and read where 'a' implies it is used to append and read.

6)

The only output generated is

ii)

~~#30~~

30#40#50

The maximum value assigned to for FROM is 3 and for TO is 4

7)

The term scope defines the area in which a variable can be accessed.

Global scope implies it can be accessed

② and declared outside function anywhere in program, where as local scope variable can be only accessed in an area and is declared inside function.

```
3) def bisearch(a, ele):
    begi = 0
    last = len(a) - 1
    while begi <= last:
        mid = (begi + last) // 2
        if ele == a[mid]:
            return mid
        elif ele < a[mid]:
            last = mid - 1
        else:
            begi = mid + 1
    return -1

n = int(input("No. of element Entes"))
as = [0] * n
print("Enter elements in sorted order")
for i in range(n):
    as[i] = int(input("Element" + str(i+1) + ": "))
print(as)
item = int(input("Enter item"))
index = bisearch(as, item)
if index == -1:
    print("element not found")
else:
    print("Element found at index", index, "position", index+1)
```


(3)

a) fetchall() returns all rows of a query result. It returns all rows as a list of tuples. If ^{returns} an empty list is found it ~~returns~~ no record is found.

11)

```
def gcd(a,b):
    if(b==0):
        return a
    else:
        return gcd(b,a%b)
a = int(input("Enter first no:"))
b = int(input("Enter second no:"))
GCD = gcd(a,b)
print("GCD is: ")
print(GCD)
```

13)

```
def countlines():
    file = open("passage.txt", 'r')
    lines = file.readlines()
    c = 0
    for x in lines:
        if x[0] == "A" or x[0] == "a":
            c = c + 1
    print("Total lines", c)
    file.close()
```

15) seek() function returns the position to the beginning of file where Tell() function returns the current position of file.

④

- 17) Constructors are generally used to assign values to the data members of class when an object of class is created. constructor is automatically called when created but other member functions has to explicitly using objects of class.

II.

- 19) A View is a virtual table which do not hold data themselves.
- 20) Privacy of Data is the proper usage collection, deletion and storage of data - which is the right of person individual w.r.t personal info. whereas Data security is methods and means to secure this personal data. It ensures the integrity of data.
- 21) . Left join returns all rows from the left table, even if no matches in right table.
• Right join returns all rows from right table if even if no matches are in left table. It depends on the position of table.
- 22) It deletes the dependant column entry in child table when there is any attempt of deleting it's value from parent table.

(5)

23)

i) Select * from ~~SENDER~~^{SENDER} where SENDER CITY = 'Mumbai',

ii) Select RecID, SENDERNAME, SENDERADDRESS, RecName, Rec Address, from SENDER, RECIPIENT where SENDER.SENDERID = RECIPIENT.RENDERID;

iii) Select * from RECIPIENT order by RecName;

iv) Select RecCity, count(*) from RECIPIENT group by RecCity;

12) import mysql.connector as msc
con = msc.connect(host = "local host", user = "root", password = "tiger", database = "justine")
if con.is_connected():
 print("Successfully connected")
 cursor = con.cursor()
 query = "insert into emp (empno, ename, job, salary values ({{,}}}}}}}}).format(1005, 'kishor', 'accountant', 5000)
 cursor.execute(query)
 con.commit()
 print("Record inserted")
 con.close()