CT-2 Assignment

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Section: - G1

6) Write a Sal lite's statement to create a table named as job including columns job-id, job-title, Min-enlary, Mor-solary, job-id solumn does not contain any duplicate volve at time of inection

A) injort spile 3 con - Eglite 3. connect ("Tob.db")

can execute (" Create Toble IF NOT EXISTS Jobs (JOB_10 vachod) NOT NULL, JOB-TITLE vorchar (35) NOTNULL, MIN-SALARY decirid (6,01, MAX-Schary (6,0)1;")

ean execute ("inject into job values (101, Monager", 15000, 25000)")

7.7 What is Event Divien Bragranning ?

A) In programming, on event handler, is a callback routine that operates asynchronously once on event takes place. It dictates the action that follows the event. The programer writes a code bor action to take place. An event is on votion that takes place when a near interests with program.

81 Write python code to point even number, oddrumbers from list of given number veing Injerative approach [2,5,8,23,14,37,47,18,20,36,29]

A) rum= (2,5,8,23,14,37,47,18,70,36,29] odd=[] Even=[]

for i in num. ib 10/0 2 = = 0. even offend (i) else: add append (1)

found (odd) Print (even)

9) Exploir implicit Posalletism

A) Allow programmer de ville chair programs without concern about the exploitation of parallelism. Exploitation of parallelism is instead automatically performed by computer and for the runtine system. In this many the parallelism is transporent to pragrammer maintaining the complexity of software development at some lavel of Stordard sequential programming.

-> Extracting parallelism implicitly is not on easy task. for injections set spangeal gimmargary sinteregmi rof program is almost prohibilitiely and allows rositive sesults only for ragtricted sets of opplication.

(0.) Find out geometry managers for bollow ortions a) Those set of sodio midgets and want place it reset to such other dang horizontal oscis. b) Those outton widget which I won't to place it on specify coordinates denoting the screen

(A) 261 = tk. Radiabrittan (root, test = "option 2", variable=var, value =1) 0= mulas, 0= enox) bisg. 2dx 961. grid (2000=0, column =1) by-place fx=50, y=50 b1=1k. brittan (noot text="submit",

Command: Loct destry b1. place (x=50, y=50)

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Create table for student with following fields
a') (Reg-ro, student-rome, sex, create table Depl with
11.)
      following trålds (dept-ro princing skey, dept-rane)
     a.) Treet Souple records
     bis Display Student segro prame, dept. none.
     (1) Duyloy name ending with Ka
     d., Dieplay female name students
    e) Dieplay rames in descending order.
A) Import squite 3, son = squite 3, cornect("collegabi")
    St: "Create toble (200 number (3), name char (50), dept number (5),
                       gorden char (20));"
    con execute (St)
    St. "insert into student volues (101, 'ajoy', 1, 'nole');"
    con. execute (St)
    St= "create table dept (dno number (3) primary key, drone
                                                         char (50) !;"
    con escente(St)
    est : 'insert into dept volue (1, 'Cse'); "
    con execute(st)
    St = "Select student. name, dept. name from student INNER JOIN
          dept ON Sidro-didro,"
    con execute(St);
    St = "select 200, none, dept, sol from student;"
     con execute (St);
     st = "select name from student where name like "o/oka";"
     con execute (St);
     St = "select + from strudents where gender = 'female';"
     con. execute(st)
    St = "select * from students order by name desc')"
     con execute (St)
```

· con dose ()

11.) Explain Parallel programming and write multithroaded

A) Multitoeking in general is copability of partning rultiple tooks simultaneously. Multithreading sefers to concurrently executing multiple threads by rapidly switching the control of CPV blu threads. Python Chabal Interpreter Lock limits one thread at a time even it machine contain multiple processors.

Application:

from threading import 4

det coloulate square (num);

pouril ("Coloulate square et given number")

for n in num;

print (f'The Square of RA) is: ' not A)

dot redulate reube (num):

point ("Colculate cube of RNJ is: ' N+ N+ N)

point (t" The cube of RNJ is: ' N+ N+ N)

184- (8,4,6,8,10]

thread 1= thread (target=coloulate_square, orgs=(1st, 1) threading. Thread (target=Coloulate-cube, orgs=(1st, 1) threading. Thread (target=Coloulate-cube, orgs=(1st, 1)

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() rioj. s boerlt

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Create calender using Tkinter by showing data month
    and year with scrall down menu fix the particular
    data month and year and press the click britton
   to show message of clicked state month, year.
A) from thinter import to
   input colendor
   from datebuie import data
   det printColender ():
         month-sind (month-box. get())
         year = it (year-box get ())
         output - edender- rabudon month (year, month)
         colendor bield. delete (1.0, 'end')
         colordor field insert ('end', output colordor)
   def reset():
          edendor. freld, delete(1.0, 'end')
          month was set (consent-month)
         year vor . Ret (current-year)
         north-box configure (textroriable = month vor )
         year has configure (text variable = year vor)
   det dose ():
        qui Wirdons, destroy ()
   header-frame - Frame (gui Window)
   entry . frame = Frame (qui Window)
    regult frame = Frame (qui Windows)
    button-brane = Frame (qui Window)
   bader frame, pack (expand= "True, fill = "both")
   extry Jone pack (expand= True, fill= both")
   sesult. frame. pack (expand = True, fill = "both")
   button-brone pack (sapord = Tane, fell = "both")
```

```
header lobel = Label (header frame, text = "CALENDAR")
bender-lobel pack (export= True till = "beth")
month-hobel = Label (extry frame, text="Martl")
year-lobel = Lobel Centry-brave, test= "year",
             fort - ("arial", "20", "bold"), lo = "#000000")
month slabel place (31=30, y=0)
year-lotel place (x: 2735, y=0)
month vor - Intrar ( 2 dry - frame )
year- Var = Intrar(entry-frame)
current_month - date today () month
current-year = date today () year
north-var-set/curent-month)
 year-vor set (-convert- gear)
nonth_box = Sperbosclantry-brane, from 1, to 12, weighthe"10",
factionable = month var , font = ('ariol', '(5'))
et _mane_ = = "mairs":
     quinsindon = TK()
      guinvirdan .title ("CNI Colondon")
      quillindow geometry ('500450')
     'I peterago enobrilling
       qui Window resignable (0,0)
```

15 P)

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| Grander T | comale o femal | ھ |
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| Delate | Select | |
| Lizerace | 7 - 30 | |

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A) from thinter impart to
   Scot = TK()
   det insert ():
   le = Label ( root, teset- "reg ro"), grid ( row=0, calumn=0)
   eid=StringVar ()
   E1 = Entry (root, teatroriable = eid). grid (row=0, Column=1)
   lz = Lobel (root, fext= "None"). grid (row=1, column=0)
   erone = Stringvar ()
   ez: Entry (root, text Variable= enone). grid (row=1, Column=1)
   23 = Lobel (root, feat = "Dept"), grid (row=2, column=0)
   fob = String Vord )
   P3 = Entry (root, feetVariable= job), grid (row= 2, Column=1)
   lu=Label (root, text="crender"). guid (row= 3, column=0)
   v= IntVov ()
    21=Radio button (2001, teset="Male", volue=1, Vorible=V).
          grid (200=3, Column=1)
   It = Rediabrithan (roat, fest = "Fenale", value = 2, variable = V)
           grid (rone=3, column=0)
   S= Intranco
    SI = Spinbez (root, from -= 18, to= to, textomoble = s). grid
                 (1=nnulos), presor)
    b1 = Button (root fext="Insert", command=insert), grid
             (row: T, column =0)
   bz = Bitlon root pest = "updoto" (gammand = insert)
   bg = Button (rod, fest = "select") commoderisect)
    by = Button ( root steat = "dolote", commod=insert )
    Soot. noinloop()
```

MCas 11) The idea of imperative programming paradigm initates Object oriented programing 2.) which is balse regarding dependent types They allow us to write programs and Grow they are correct only ofter & surring them 3) It "won't for graph" for a set of processes calour a cycle, so it means There is a charce for deadlack to occur. 41 >>> P= Pool(5) - pool of fix venker process 5.) Sprin box (1' provides range of values to near out of 6) "Touger Function" decides what rade to our whom

there are specific svent occurs, which are used to select which event hondler to vee for event

7.) Creating "Submit" Syntax

Subnit = Britlan (parent, taset="subnit"). grif (row=2, column=c Povent=TK()

8.) "< thread> < threading>" are two modules affers to implement in python programming

9.) "expand" property of Geometry manager pack allows the widget to full only space not otherwise used in widget's povent.

10.) Syntax which does not insert new record into Sqlile 3 Trest into phonebook (phonero, frome, Irone, enail) values (123, 'x') Cr', 'xyz@gmoil.com');

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Section: - Gr1.