

LABORATORY WORK BOOK

Name of the Student: N. Ravi Chandiska									
Class CSD-B Semester Drd Semester						Roll Number			
Cla:	ss	le: 165010 Semester.	Name :	25 Labor	alony	239	151A	7 1	3 3
Var	ne of the	Course Faculty M.5	· Gr. Ind	щ		*******	Faculty ID :	IAREI	0971
Exe	rcise Nu	mber :3	Week	Number :	3		Date :ఎర	-09-	2024
		EXERCISE NAME	MARKS AWARDED						
S. No.	Exercise Number		Aim/		Algorithm / Procedure		Program Execution Results and Error	Viva - Voce	Total
			Preparation	Performance in the Lab		Calculations and Graphs	Analysis		1-3-
			_ 4	4		4	4	4	20
1	e 1	managing student records	У	2	2	4	3	4	19
2	3.1	managing medical records		2_	2	4	4	4	20
3	3.3	Marsging media files in	4	2	2	4	4	4	20
4	3·4	Digital Archive	Ч	2	2	4	4	Ч	20
5	3.5	xxiAnh3	4	2	2	4	4	4	20
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11				54 1					
12									

N Ravichands ke Signature of the Student Signature of the Faculty

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Asm: Managing student records in a school database.
  Cocle:
 clas student Record:
   dy _95t_ Csey, name, studentered, grade, address):
       self-name = name
       Sey. Student-id & Student-id
       sty-grade = grade
      sey. address = address
  dy - siepsi- (sey):
      retrun 1" Eself. name &, 10: & self. student-rd &, Grade: & self. grade?
class File Allocation Table:
    dy -init-(sey):
       Scy. Table = & }
   dy add-Diecoud Csey, Student-Id, block-Indem, Lingth):
        self-table[student-id] = (block-inden, lingth)
   dy remove_ record ( self, student- id):
       if Student-id in self-table:
            del self. table (student-id)
 dy get-record-location (sey, student-id):
      oreturn Bey. Lable.get (Stuckent-id, None)
Class Student Database:
  dy -init-Csey, Hock-size =1):
       sey. disk =[]
       sey fat = File Allocation Table ()
```

self-block_size = block_size

```
dy add-student(self, Bladent):
    block index = Lin(sey.disk) / sey.block-size
    sey-dist-append (student)
    Sey. fat-add_record ( student- student-id, block-index, 1)
    patrit (f'Added: & student 3")
dy dubb-student (sey, student-8d):
   orecond-location = self. jat-get-orecond-location (student-id)
   ff onecond_location:
      Black_Index, _ = orecoud_location
      Sey-disk(block-finder) = None
      sey-lat-remove-record (chudent-id)
      print(i" Deluted Student with ID: & student = id3").
        planting the transfer of the second for the second in the deposite of
     print(t' student with 20: & student-Pay not found.")
dy updat-student (sey, student-ed, new-student):
   record-location = sey-lateget-second-location (student-id)
                           A STANDARD CONTRACTOR OF THE STANDARD CONTRACTOR
   of accord-watton
      block-sinder, = = orecord-location
      sty. disk(block-inden) = new-student
      sey. fot add. second (new-student-student-1d, block-inden, 2)
      print(+" updated student with 10: & student-idy to frew-student
      print (1" Student with 10: & Studentially not Jacina.").
                                     etania yang dan terbiga
dy digray-students (sey):
    print ("auxent students records:")
```

for success to early attacks to the second to early attacks to the second to early attacks to the second to the se "H brecond! portal (accord) dy calculate diex space cselp: total-space = Lincocly. dran) * sey. block-size used space a sum (1 for second to self-disk) & sey. block-stz print (1" Total Der space: Stolal-space y unit!") point (1" used Disk space: E-total-space & units") parniff" Pree diek space: § total-space - used-space y unity database = Student Database C') Student-a . Student Record ("John Doe", 101, 10, "123 main street") Student - b = Student Record ("Jane smith", 102, 11, " 952 FLM Street") Student - c = Quident Record ("Michael Brown" 103, 9, "789 Car Avenue") database add - Student Cstudent-9). database add-student (Student-b) database-actor - Student (Student -C) database araplay: Students () Educted & updated = Stuctune Record ("John Doe", 101,10,"321 Main Street") dalabase update - Student (191, Student a upotated): database display - Studentse) dalabase-dulle - Studien (102) dalabase-display- students () database-calculate-clist-space() the a Larrant Dinny Output: Executed. ing in the administration publication into Commercial and the commercial property of the co

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mm: Manacling medical successeds in a hospital information systems. Allengia Strand a This was . code: and the standard the standard the standard of the class patient record: del - Port - Csell, name, age, medical -id, address): sey name = name gat of free last of the kindly sed-ade = ade sey-medical-id = medical-id sey-address = address , The same of the same dy -suporceys: ordun tugsey, namely, age: 2 sey, age 3, malcal DD: Esey, medial) the are often brokery testebel class Indea Block: dy -init- (self): self-pointers = [1], 1 million or him in the second in dy add-pornier (seif, block-index): sey. pointers append Chlock-inden) Class Indered Fle Allocation: dy -init - Csell, block - size = 1); gey. disk = () " doil - to be age (our word) the sey. Index_table 2 & f. 'SUJ. block-size = block-size item. (120) mortifica solven 102. def add-patient (set), patient): if patient medical set in self indea - table: print(t" Patient with Medical 102 patient-medical-idly.") trove and the outurn Index - block = Index Block() suy. alex-append (patient) i index-block add-pointer (Lun (sey-disk) -1)

sey. inden : lable [patient , medical id] = inclex-block ROLL NUMBER : Dazur (4, Verges : Ebotte uf 3,,) dy detetr-patient (sey, meetical-bid): if medical-id not in octilized in the lable; print (4" Patient with medical TD & medical-rd & not found by ordon Finder-Hock = SCY. Finder-table for black-finden to finden-block-political: sey. disk [black-indea] = None dy sey-index -table[medical-id] print (1" Deleted patient with medical PD: 2 medical-idy") dy update-patient (sey, medical-ed, updated-patient): It medical-id not in sey-inden-table: print (1" Potient with medical 20: 2 medical-idly not found.") Landers' shought the right senting the return inder-block = sey. inder-table[medical-id] block-traden . ander - block pointers (0) sty-disk[block-finden] = updated- patient. print(1" updated patient with medical ip : quodatedpatient y") 3. 12. 3. 14. 11. dy ordrive-patient (sey, medical-rd): It medical-id not in self inden-take: Pount (f' nation with medical DD & medical - id & not found-") and the kind of the contract outur None

Finden-block = self-finden-table[medical-ra]

block-finden = inden-block-pointens(o)

Pathent-steeled = self-disk(block-finden)

positi(1" pustined: 8 passintancody) oution patient oucesd dy display-patients (sely); print ("Current patient recorder) for record in self-dist: CONTRACTOR OF A A STORE A record: prent (record)

del campate - arek - stace (self): total space = lin(sey. dist) = sey. black = size used-space = sum(1 pl sicold in sujection sujections STATE STATE AND

em - system = Indexed File Allocation()

patient-a = Patient Record ("John Smith", 45, 1001, "123 HOSPITAL POR") patient = Patient Record ("Joane Cos", 32,1000, "as elinic freme")

patient -c = Patient Record ("michael", 5%, 1003, "759 medical plaza")

cmu-system.add-patient(patient-a)

emi-sylum.add-pattent(patient-b)

erm - system. add - patient (patient - c)

emn-system. outrieve-patrent(1001)

patient-a-updated patient Record ("John Smith", 46, 1001, "321 Hospital")

astrophysical temperatures

erner-system. update - patient (1001, patient-a-updated)

ema-system. display-patients ()

emer-system. delete-patient (1002)

err- system. display- potients ()

em-system-Calculate disk-SpaceC) Contractor of the second of th

Output: Enecuted.

TO THE WILLIAM STATES

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Aim: managing nightal media files in a multimedia Application.
                             And the Assert of Land State of
 Code:
 chy Medatte:
   dy _ina_(exy, name, file type, size):
                            self-name = name
                           e selle file ( 1 ee 1)
      SEY. The type = fels type
     SUI . STRC = STRE
                               Charges Joyne, 1
     Sey-ploop =[ ]
                         dy -acpa-(sey):

outium 1"{sey.name}({sey;|ile-type}), size:{sey.size}me"
  dy -acpaz (sey):
the Disrotak:
ay -Prit - (sey, inden):
     SUL- index = inclui =
    suj-data = None
     say-next-book = None
clax Linked FileAllocation:
  del -init-(sey, block-size=10): 10 septiming:
                     Company of the second
     sey. lat = f }
     suj. black-size = block-size 11
 dy add-Ine Cary, media files:
    Suquired-blocks remedia-lile-size + Sey. Hock-size-1)
    (d : in large (un (sey-clik), un (sey-clisic) + req-blocks):
      34 disk append (Disk Black (T))
      black-indices. append (1)
```

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for in range (viequised-books):
    if Te required blocks -1:
        self-disk(block-indices (i))-neal-block = block-indices [i+1]
                         The training of the first
      else:
        self-clisk(block-inclines [7]). Den -block = None
  media-lik-blocks = block-indices
  ely. |al[media - lite. name] = block-inclices
  print (1" Added: { media-|ile}")
dy delite-file (sey, file-nami):
  it like-name not in sey-lat:
    point (1" File 'Sfile-namely not lound-")
             The fig. the first part was builthing
    actum
  block-indrces = sey. /at[/ile-name]
  for block-Index in block-indices-
    sey-disk[black-index] = None ...
                  del sey (lat [ file-name)
  print (1" Deleted tile: ffile Name y")
dy retrieve-file (self, file-name)?
  it file-name not in sett-Tat:
    print(x" File '& file-name ? not found-").
                        octun None
  block- indices = Sey-latigat-file-hame).
                   196-Packs = []
  Joh block-index in block-indices:
                             if sey-disk [block-Index]:
```

```
lik-blocks-append (sey-dist/block-Index) ...
                  point (1" Pelviered file ' Effile-nome 3' with blocks; {file-books}")
                   odun-file-blocks
        dy cusplay-file (sey):
                          pornt ("Current media files s")
                            lor lile-name, block-indices in self-fat-ilems():
                                                  potral (f" ffile-name): Blocks & block-indices?")
             dy colculate - disk-space (sey):
                  total-space = 'lun (self-cursk) * self-block-size
                                      used-space = sum (sey-block for block in sey-diskly not None)
                                        point (1"total Disk Space: ? total-space, MB").
                                         print (f'Used biskspace: Swed-space ) MB")
                                         print (f' used free space: Etotal-space - used-space & MB")
   multimedia - app = Linked File Allocation()
    file-a = Mediafile ("Land scape. Jpg", "Image", 5)
    file-b= Media/Ple ("Concert·mpu", "Video", 50)
    file-C= Mediafile ("Song. mp3", "Audio"; 8)
    mulimedra-app-add-file(file-a)
                                                                                                                                                                                                                                                      I had a second to the
   multimedia - app-display - liles (>
  multimedia-app. retriève, life (" concert-mpy")
                                                                                                                                                                                                                                                                        \lim_{t\to\infty} \frac{1}{t} \int_{\mathbb{R}^n} \left( \frac{1}{t} \int_{\mathbb{R}^n} \int_{\mathbb
 multimedia-app. delete-fre (" song. mp3")
                                                                                                                                                                                                                                                                         rate of the
 multimedia -app. display - files ()
                                                                                                                                                                                                                                                                        20 17 11 11 11
multimedia - app-calculate - disk - space ()
                                                                                                                                                                    the state of the s
  Output: Enecuted
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