| 5 | 10 11 14 |
|------------------------------------------|--------------------|
| Experiment Name / No.: _5 | Camlin Page No. 17 |
| | Data 1 |
| IMPLEMENTATION OF QUEUES & CIR | MAR QUEUES |
| | |
| | |
| AIM | |
| wrue ac program so implement | Queues and |
| 5 armeur Quene using arrays and p | |
| operations on the stack I push 11/ Po | 1 |
| 14) esempty v) Isouel vi) Display | , |
| | |
| 0.000 | |
| ALGORITHM | |
| - main () bunium | |
| 1 Start | |
| 2 ASK the user, weather to use norm | ner gruene |
| or circular quene | |
| 3 Iouser selects vormal anene | |
| 15 3.1 Ask une user weaver to insert() | pelue () |
| Despeay (), esemply (), isbull (), | or goult |
| 3.2 It user chooses more | |
| 3.2.1 call one inserted buncaron |) |
| 3.3 To user chooses delete call the | ctelese () |
| 20 bunision | |
| 3.4 de user chooses display, call the | queplay () |
| 35 16 user chooses usfull, call the | |
| 3.6 Do user envoses escese, escir out of | |
| 4 26 user seleves curerar conere | . , |
| 25 4.1 Ask the user weather to insur | u() Deleve () |
| Display () isemply () issuel () | |
| | |
| Teacher's Sig | inature: |

| Experiment Name / No.: Camlin Page No. 18 | | |
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| Date | | |
| | | |
| 4.2 16 wer chooses meer call the enque! | | |
| 4.3 16 user chooses delete, call the dequency | | |
| 5 Cunition | | |
| 6.4 16 user chooses display, call the display() | | |
| 4.5 16 user chooses empty | | |
| 4.5.1 DC = vsemply () | | |
| 10 4.5.2 M 21=1, print queux is empiry | | |
| 4.5-3 bsc=0, prini quene is out empry | | |
| 4.6 M wer choses asoull | | |
| 4.6.1 DC = 13bull () | | |
| 4.6.2 No sc = 1, prini- griene is bull | | |
| 15 4.6-3 16 2(=0, print queue is not bull | | |
| 5 repeat une sups voule user chooses escit. | | |
| 6 Stup | | |
| | | |
| The care of the ca | | |
| | | |
| 3 else | | |
| 3.1 no bron== -1, front = 0 | | |
| 3.2 input the element to be ansorred brom user | | |
| 25 3.3 rear = rear +1 | | |
| 3.4 anene-gray (rear) = and-them | | |
| | | |
| Teacher's Signature: | | |

| Experim | nent Name / No.: | Camlin Date | ן Page I | vo. 19 |
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| | | , , | | |
| 4 | Stop | | | |
| | | | | |
| -) | delete() buncuon | | | |
| 15 | Sture | | | |
| 2 | 10 from == -1 or bront > rear | | | |
| | 2.1 print, ariene underflow | | | |
| 3 | else | • | | |
| | 3.1 display arrell-curray (broni) as el | leme | n- 6 | o be |
| 10 | | | | |
| | 3.2 bron = bron +1 | | | |
| 4 | Seop | | | |
| | | | | |
| -) | ovelisplay () bunction | | | |
| 15 | Start | $\sim h f$ | <u> </u> | |
| 2 | , , , , , , , , , , , , , , , , , , , , | , 0,70 | J | |
| _3 | else 3-1 i = bront | | | |
| | 3.2 repear while i <= rear | | | |
| 20 | and the contract of the contra | | | |
| | 3.2.2 merenient i by 1 | | | |
| 4 | | | | |
| | | | | |
| 3 | visenpey () ounceun | | | |
| 25 | 5 Stary | | | |
| 2 | 16 bront > rear or (bront == -1 and | rewr | , = = | -1) |
| | | | .1 | |
| | Teacher's Signatu | re: | | |

| Experiment Name / No.: | Camlin Page No. 20 |
|------------------------------------------------|----------------------|
| | Date |
| | |
| 2.1 print griene is empry | |
| 3 cese pount quiene is not emp | rey |
| 4 Stop | |
| 5 | |
| -> wisbull () bunción | |
| 1 Start | |
| 2 16 rear = = MAX-1 | |
| 2.1 print aviene is bull | |
| 310 else prince gouene is not bull | |
| 4 Stop | |
| | |
| -> isoul () bunction | |
| 1 Stare | |
| 25 16 (bront = rew +1) or (bront =0 a | mel rear = max - 1) |
| 2-1 recurn 1 | |
| 3 lese return 0 | |
| 4 Stop | |
| | |
| -> vsempty () bunution | |
| 1 Start | |
| 2 16 bront = = -1, return 1 | |
| 2 16 bront = = -1, return 1 3 else recurn 0 | |
| 4 Stop | |
| 25 | |
| | |
| | |
| Teacher's | Signature: |

| Experiment Name / No.: | 0 1 1 1 0 1 |
|-----------------------------------|-----------------------|
| Experimen | Camlin Page No. 2 \ |
| | |
| 2) enamene () bus | |
|) enaviere () bunction | |
| | |
| 2 ask brom the user, the | element av be |
| 5 merices | |
| 3 ro (usbull)), prime avient | e is bull |
| 31 · else | |
| 4.1 10 bron: = = 0-1, bron: = | : O |
| 4.2 rear = (rear +1) % MAX | |
| 10 4.3 Greene array (rear) = elem | em- |
| 4.4 prim the element who | |
| 5 Stup | |
| | |
| -> devueue () bunition | |
| 115 Sture | |
| 2 16 (semping) prime avelle is | emply |
| 3 clse element = querie_array [br | • |
| 3.1 ib bront = = rear bront | |
| 3.2 else bront = (bront +1) ; | • |
| 20 3.3 pront the deleted Elem | |
| 4 Stop | |
| | |
| -> display() ourrieron | |
| 1 start | |
| 25 16 (vsempry ()) | |
| 21 print empire queur | |
| | |
| | Teacher's Signature: |
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| Experiment Name / No.: | Camlin Page No. 22 |
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| | Date |
| | |
| 3 else | |
| 3.1 i = become | |
| | |
| 3.2 repeut while i! = rewr | |
| 5 3.2.1 print oviene_array [i] | |
| 3.2.2 i= (i+1) 1/. MAX | |
| 3.3 print- ornere array (i) | |
| 4 Stop | |
| | |
| 10 CONCLUSION | |
| The progrem hus been escentees | correctly |
| and onepur hus been veribreel. | |
| , and the second | |
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| 15 | |
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| 25 | |
| | 1 |
| Teacher's Signa | ture: |
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| Experiment Name / No.: | Camlin Page No. 23 |
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| EMPLEMENTATION OF PRIORITY QUEU | E |
| AIM | |
| 5 privring queues using arrays | , to implenen- |
| ALCORITHM | |
| -) main () ounceron | |
| 20 ask kne user to ventuer meert () | , snow() |
| 3 16 asar chooses input | |
| 3.1 get the trulue to be inserted on 3.2 call the enque (data pr) bung | |
| 415 to are courses delete, call the de | |
| 5 ab user mooses show, call the p | runt() |
| 6 Scop | |
| -) enaviere () burrieron | |
| 1. 16 $\pi = = N-1$ prime aviene is a else | ull |
| 2.1 16 f==1, f=r=0, Q[r]= claricy | Pr (r) = P |
| 2.2.1 i=r, repear where i >= f | |
| Teacher's Signatu | ure: |

| Exper | riment Name / No.: Camlin Page No. 24 |
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| | |
| | 2,2.1.1 16 P>Pr(i) a(i+1) = Q(i) pr(i+1)=pr(i) |
| | D.2.1.2 else, break |
| | 2.2.2 Q (i+1) = dara |
| 5 | 3,2.3 pr(i+1) = P |
| | 3.2.4 2=2+1 |
| 3 | SLOP |
| | |
| -) | print () buncion |
| | Stur |
| 2 | i=f repear whate i <r< td=""></r<> |
| | 2.1 print element and privrity 2.2 j = j+1 |
| .3 | Stup |
| | |
| 4 | Stwe |
| 2 | ur b = = -1, prime viewe is emply |
| 3 | Clse |
| | 3.1 prime are a(t) and pr(f) as delevery |
| 20 | elmen and prioring |
| | 3.2 No f == 7 f= 1 |
| 1.10 | 3.3 else f++ |
| 4 | SEUP |
| | |
| 25 | CONCLUSION |
| | Program has been escluded correlly |
| | |
| | Teacher's Signature: |