* Assignment No. 11 *

Aim! -

Queue are frequently ward in Computa

programming and a typical example is the

creation of a job queue by an operating

system. If the operating system does not use

priorities then the jobs are processed in the

order they enter the system. write (It program

for simulating job queue. write functions

to add job and delete job from queue.

Hardware & Settware Requirements!

Prerequisities:

Basic Skills of the programming language

ct queux.

Theory :-

Queue is a linear data struture in which the insertion & deletion operations are performed at two different levels. In a queue data struture adding & removing of elements are performed at two different position. The insertion operation is performed at one and deletion is performed at one and deletion structure the at other end. In a queue data structure the at other end. In a queue data structure, the insertion operation is performed at a position which is known as per rear and the deletion operation is performed at a position of the deletion of peration is performed at a position the deletion of peration is performed at a position of the deletion of peration is performed at a position to per at in a per rear and the deletion of peration is performed at a position to peration to peration and peration to pera

	In a queue data 8 tructure, the insection
	operation. 15 performed using a month of called
	and all of operation is nextermed
	using q junction Called dequeuell'.
	raueur data structure is a Collection of
	similar acta Hem in which insection &
	deletion operation are performed based on tito
	Drinuple".
	eg1'."
	25/30/51/60/85/91/0 L Rear.
	ront.
	Queux data structure can be implemented in
	two ways.
	(i) Using Array
	@ Using linked HST.
	Algorithm:
15-10 J	Oueue operation using array.
	Step I: Include all the header filig, which are
	used in the program and define q
	Constant (SIZEI with specific Value
	Step II. Declare au the user defined junction
Pro-street	which are used in queux implementation.
	step III: Create a one dimensional array with.
	above defined size
	(înt queue [513e])
	Stepty: Define two integer variable front
	2 rear and initialize both with -1.
ram)	FOR EDUCATIONAL USE
A STATE OF THE PARTY OF THE PAR	40의 보통 그는 그는 그를 되었다면 그는 전에 가장되었다. 그는 그를 그는 그들은 그를 가장되었다면 생각하다면 그를 그는 그를 그는 것이다. 그를 그는 것이다는 것이다는 것이다는 것이다. 그렇게 되었다면 그렇게 그렇게 되었다면 그렇게 그렇게 그렇게 되었다면 그렇게

Step I: then implement main method by display meny of operation list and make suitable function calls to perform operation selected by the user on queye. enqueue ():-Step I: this full the display " It is full' 2 terminate. Step III: If it is not full, then increment rear value by one & set queue Grear J- value display (): step 1: check whether queue is empty: (front= red) Step III: If it is not empty, terminate. Step IV: Display que [i] value & increment value by one (itt). Repeat the same until (i) value isequal to rear (is= rear dequeue(): Step I: Check whether the queue is empty. (front sear). step II: If it is empty, terminate. Step III: If it is not empty foont ++ display queue (Ront)

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Flowchart: (start)
Create Queue & define size.
Dedare Job [Max]; front== rear.
Accept Value.
Casel Tour Call addjobfor
add job inqueue
Touse true
Case-2 (all del-jobl)
tous I call display
- (Case-3)
gots cose 4) Invalid choise
Fot Case 4/ entired.
Truc
END
Condusion: Condusion: Hence we have studied & implemented Queue Hence we have studied & implemented Queue
Hence we have studied & implemented and Le performed various operation on it.
Hence we have operations
& beglormen
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