	Assignment - 2
	Title: To develop any distributed application using Message Passing Interface (MPI)
	Objectiver By the end of this assignment, the student will be able to implement any distributed
	applications based on MPI Theory r
	Message Passing Interface:
	- Message passing is a popularly renowned mechanism to implement parallelism in applications. It is also called as MPI.
	-MPJ is a message passing library that can be used by application developers to execute their parallel Java applications on compute - dusters or network of computers
	- MPJ 35 Lamaliar Java API Lor MPJ implementation
	- The programming model followed by MPI Express is Single Program Multiple Data (SPMD)
REIGAL HISUSTAIN	FOR EDUCATIONAL USE

"1		
	NICE WAY TO	
	MPJ: MPJ with Java	
- nint	MPJ Express Configurations	
	[MPJ Express Configurations]	
	Configuration Configuration	,
1	Commission	
	Dioder [hyder [mxder] pative]	
	-MPJ Express Software con be configured	ro
Lon	many Maluray and present the second	
ex il	- Multicore Configur	<
	express user programs on laptops of	
No.	desktops.	
- Californ		
	- Cluster Configur It 30 used to execute MPJ express	User
3 477	programs on clusters or network of	
Managara	computers.	
to contract	1 1 1 1 1 man 9 31 0 1 man 1	
	FOR EDUCATIONAL USE	
THE RESERVE OF THE PERSON NAMED IN		10 m 20 m

*	Installing MPJ Express
	1. Download MPJ express (mpj.jar) & unpack
	2. Set environment variables MPJ-HOME and PATH:
n:	export MPJ HOME = /path / to /mpj/ export PATH = \$MPJ_HOME / bin: \$PATH
	3. (reate a new directory of Por MPI express programs. eq: /mpj-user directory.
31	eg: /mpj-uxer directory.
	4. Compile the MPJ Express library: cd \$MPJ-HOME;
	Contillation of the contil
	MPI Environments
	MPI is for communication among processes, which have seperate address spaces.
	communicate with one unother.
	· Communicator is the control object for communication in MPI
	FOR EDUCATIONAL USE

	contains all initials processes, called MPI_COMM_WORLD.
	· Every MPI program must contain import mpi.MPI
164	MPJ-Init initializes the execution environment
	tox MPZ
	the group associated with communicator.
	in this computations
423	1. MPI Comm size Genction reports the number of processes. 2. MPI Comm-rank function reports the
	identifying the calling process.
the state	mess that was first put into place by
	Test revenues in the street of
	The state of the s

