

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

## SURATHKAL DEPARTMENT OF INFORMATION

### TECHNOLOGY

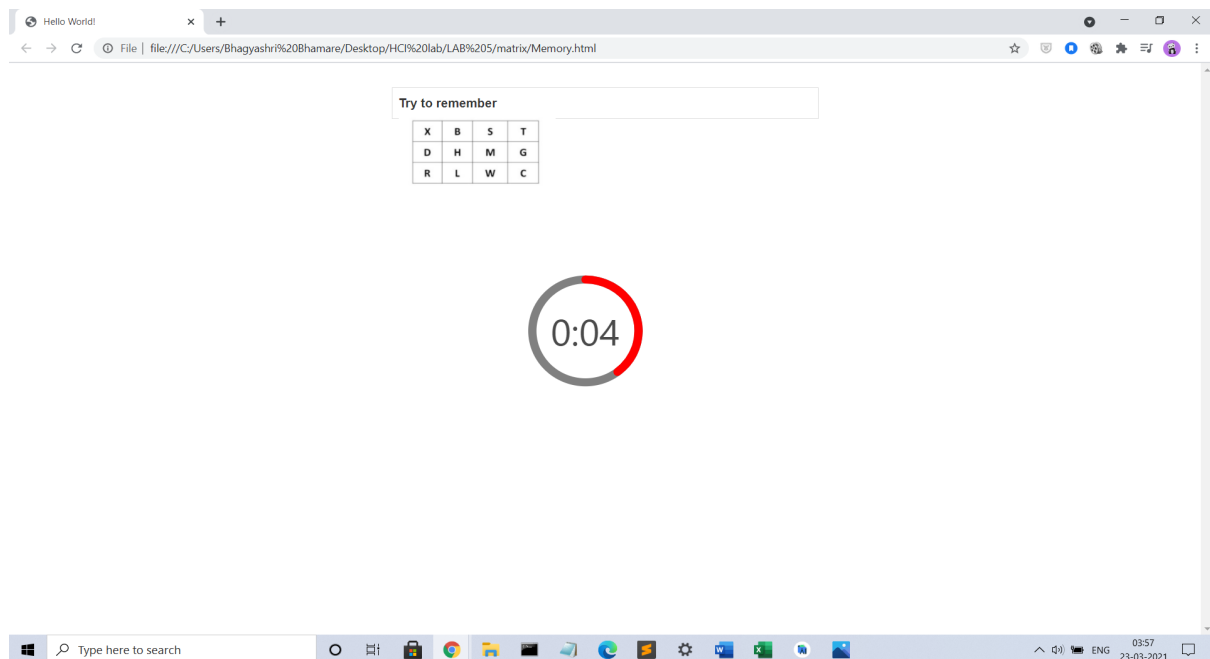
#### IT351 - Human-Computer Interaction

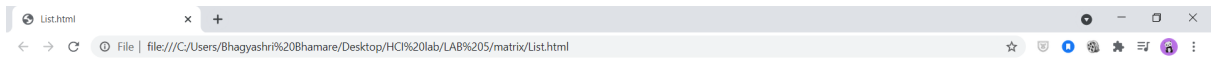
Submitted by Bhagyashri Bhamare (181IT111)

-----

*Short-term memory* (STM) is a limited memory that acts as a buffer for volatile data and it is used to process perceptual input. Empirical studies founded that, usually, human beings have an STM capacity of between five and nine items. Such items can be single objects or coherent chunks of information.

#### Screenshots-





## Matrix

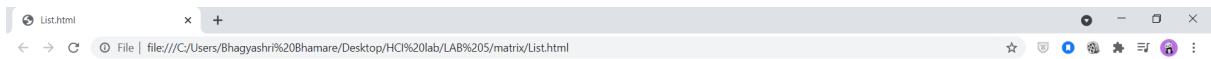
ADD

X		L	M
H	J	K	
	Y		O

calculate



## User Input



## Matrix

ADD

X	B	L	M
D	J	K	G
R	L	W	O

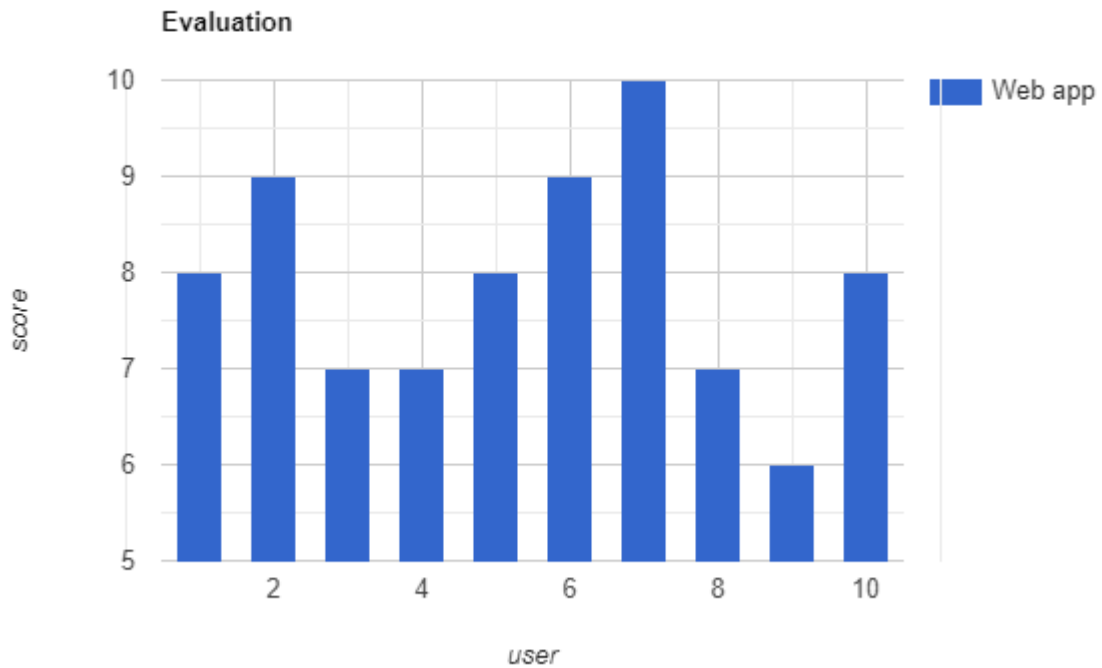
calculate

Incorrect marked boxes are marked with red

Score(%) = 58.333333333333336



## Results



### **Observation-**

1)Average score user  $= (8+9+7+7+8+9+10+7+6+8) / 10$   
 $= 7.9$

2)User tend to remember the data at corner

3)Most of the user didn't remember element at the middle

4)The same experiment was done again and instead of showing all the letters , we read row wise with decreasing tone and found that the result is almost the same 7.6  
With average score of 7.6