PROGRAMMING & PROBLEM SOLVING

Assignment - 3

Develop the logic to whether the gluen mateix is an identity mateix

of mot.

#include 2 stdio.h>

(biov) miss m this

Corl [0] The

int i=0, i=0, Jeow=0, col=0;

print ("Ender the order of the matrix (mxn): 10"); plint ("In where m = number of clows; and In");

plint ("In where m = number of columns/n");

Scanf ("8.1.d. 1.d", og rocar, of co);

wint flag = 0;

printf ("In Ender the elements of the matrice").

dec(1:0; 12 200); 144)

(b+i; los si; 0=i) sof

Escanf ("1.2", Latil [vi]);

```
; j2 col; j+4)
if (si = i & d, a [i] [i] ! = i)
            (0=1, [i][i]a]s,s.
           its a Identity Mateix ");
```

print ("It is mot an identity emalise"); regure o. White a phogram to whech if a matrix is a lower or upper triangle. # imclude 2 totdio.hs void main C) int a [10][10], i, i, l=0, K=0, N; print ("Ender the longth:"); Scanf ("1.d", itm);

for(i=0; 12m; i++) Scarf (".1.d", La CiJ [i];

for (1=0; 12m; 14+

for (j=0;j2m;j+t) if (i>) & La CiJ[i]!=0) J=1; a deiangular painly ("Mot Upper Friangular

peint ("In "Lower Hiangular mateix"): Explain under-function communication with ptoper examples when a function gets executed in the program, the execution is tambetted from calling a function to called function and executes function definition, and finally comes back to the calling function In this process, both calling and called functions have to communicate with each other to each arge information. This process is called under-function communication. In c the under function communication · Downward rommunication · Upward. as follows

·Bi - duic tional communication

Down ward communication #include 1 5+dio.h) # unclude 2 conio. h) Comismo Sior crum 1 = 10; Before Ewap: num 1 = 1.d, num2 = 1.d, addition (numi, num2); print (" dum = 1.d', a+b);

Upward communication Ex program #include & bildio. h> # in clude 2 conio. hs (2) main biou 5 this this ich raddition (); desce O; tesult = addition (); preint (" voum = 1.2", result) int num, num 2; 10/= 1 mmn num 2 = 20; (comme + 1 mum) mules.

Bi- directional communication Exprogram # imeludez stdio. hs # unclude < comio.h> C) misme biou unt num 1, num 2, tesult; (this, tim) noit ibbor time Cesals. num 2 = 20; topult = addition (numi, enum 2); spent (" wom = . 1.d", vosult int addition (winta, wintb)

avite a re program do crétange a gluen isting um ascending order. # unclude 2 stdio. h> # undude (& Seing. h) () mam tru times ici time char ble [25][25], demp [25]: purts ("How marry strongs you are going to enter? !"); Scanf ("1d", La count); fuits ("Enter itstings one by one:"); for (i=0; iz= count; i++) gets(ubte [i]); for (i=0; iz= count; i++) gets (uste [i]); for (i=0°, il= count°, i+1) los (j=i+1; j= count; j++) (o< [i] ster) gmaster) fi

steepy (temp, iste[i]);

steepy (it [i], it [i]);

Steepy (it [i], demp);

Junty (morder of sorted esterngs: ");

for (i=0; i = count; i++)

fulls (it [i]);

radurno;

3