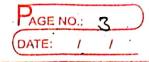
8.			
=	The differentiale better	entry controlled & exit	
	controlled loop or:		
	Entry Controlled	Fxit controlled	
(1)	Forty control loop checks	il The exit controll loop	
	condition list & then body	first executes the body of	
.\.	of the loop will be	the loop & checks condition of	
	exectud.	at last	
(1)	the body of the loop may	in the body of the loop will	
	or may not be executed	be expected at least once	
	at all	because the condition is checked	
		at last.	
ìù	for, while on on example	int Do - while is an example.	
	of an entry control loop	at exit control loop	
1.0	<u>(1)</u> . <i>(</i>		
=	Program		
-			
	# intlude < stdio.h)		
	# include < comio. HY		
	vold main ()		
	\$	1. 1.1.11	
,	int min, het, lem;		
	int num, num!, i, (0	,	
	print ("Fater number:");		
	Scant (" " d", I num	<u> </u>	
	for [ i=1 ; iz=num	· (++)	
	V V		

```
PAGE NO.: 2.
                                      DATE:
 if (num x i = = 0)
  for (i=1; ic=numl; i++)
   if (num 17.12-9)
   count! ++.
it (count != 2 ex rount : 1 - 2)
min = (num < num ) ? num; num;
while (min!=0)
it (num + min == 0 + 1 num 1 + min == 0)
break:
019
min ==1;
 hit - min;
 (m = (num + num 1)
```



Printf ("HCF Ps/d In lim is 1.d", hcf, lim);

9610

print (" prime");

goleh ();

```
Q N.2
 => A recursive function & a function that calls
itself during its execution. The process may
repeat several times; outpulling the result of the
end of each iteration
C. U.D
Hinclude < stdio. h)
# include < conio. h)
int sum series (int n)
  if (n==1)
 returned L.
 it ( n = = 2)
 return (sum series *n) *10 + sum sence (n-1).
 void main ()
        int n. toult;
        prof ("Knter value of n");
         scan [ (" 1. d", 4n).
         regult = sum sonos (1),
       printf ("the sum = 1.d", result).
         getch ():
```

```
Q W. (3)
   call by value
           call by value, the value of the
argument are passed to the function. (The actual
value is not passed but the copied value is
    # include (stdio.h)
     int sum lint a, intb).
     void moin ()
        int a=5, b=1.5;
        S = Sum (a,b);
        print + ("sum " 1 d", s).
       int sum linto into)
          return (4+b);
            In the way call by value is performed in
```

	call by referre
	Her the address of the vanable is represent
. ,	to the function is an engument.
	sympo . The address is passed to the function
	the tunction can mudity the value of variable in
	calling tunction way * 4. \$ 8
	60.
	# include < stdio. h)
	(dx top , ax toi) gowe bion
-	void mair ()
	3
	"uf a=3: P=5;
	swap (\$c, \$b).
	printf (q= 1/d b= 1/d" v,b);
	getch1);
	3. 8
. ,	(dr tap , a x tar) gowe bion
	Ş
	int temp;
	tem p = * a;
	6* 0 = *b;
	*b= temp;
	2
	The function modifie the actual value

## Program

```
# include (stdio.h)
# include < comio. h>
void Rey (Int FT, int t);
word Poud (int T7, int +);
void Display (int [], int +);
Word moint
     int Ari (100), i'M, temp.
     printf ("How mony element, in").
      Scant (" 1.2" & My.
     printf l'Inter 1. d element in ", NI).
      Read (Arr M):
     Rey (Arm, M)
     printf ("Array in reverse is In").
      Display (Arr, KI).
       gotch ().
  void Rev (int Arr Troot, int M)
       int i temp
        tor (1:0; ic (11/2); i = i +1)
          temp = x (Arr + ");
           * ( Arr+") = * ( Arr+M-1-1).
         * (Arr + NI-1-1) = temp;
```

```
roid Read lint Air TIDOJ, int N)
           scant (" 1. d d", (Am +i)
Moid Display lint Arr Tool, int H)
```

```
PAGE NO.: 9
                                                DATE:
     Propion
# include strong.h)
# in clude < stdio. h)
() Oil maiol)
   int los japas
    char text [100];
    Print f (" Inter string In"),
    gots (text);
      len = stylen (text);
      print ! " pattern is In");
      for (1:0; 1/1en; 1+t)
       3 plue
```

0 m 4 =) Nested Structure · Structure with in structure is called as nested structure. Mesting of structure is permitted in ( A structure variable my defined as a member of another stricture. In South a situation, the declaration of embedded inner structure must oppeon before the declaration of other structures Program # include (stdio.h) # in clude (math. h) # include < string h) struct student thay nump [20]; int age; that freulty (20) stdTsvJ, temp; word get info linti) & fflush (stdin); Print ("In Finter. the name of the student: "). gets (stdTi). name);
printf ("Fnter the age of the student:");

```
Scant 1" x 1 , 8 st 1 Ti J. 0 g2);
 print ("Inter the faculty of the student:")
  get, (start). faculty1.
Void soit (intn) }
    tor (i=0; i<n-1; i++)
     for (j=0;j < n-1-1;j++)
       if (1stremp (stdTj].none, stdTj+1]. nome)120)
          trmp = stdTTJ;
          Std [j+1] = temp;
void show into (int i) &
    proof [" " "]:
    printf ("The name of student 99");
    pub (statij. hume):
     print il "The age of the student is");
     printt ("x In", std ["Y.age);
   printfl"The faculty of the student is");
   gets (statig.faculty).
```

```
int main () &
       int num, i, (oun-1=0,n)
       thur ans TIO ];
        while (1)
student? In "yes' enter any key & If not enter 'No'");
      gets (cns)
      " (strong (ans, " No") = = 0) break;
        elses
         count ++
     Sort (count);
      print ("Fater the nth term: ");
      Print + ("Name: 1.5 It faculty: 1.5 It Age: 1.d",
stddn-1).none, std [n-1].faculty, std[n-1].age);
```