Bangladesh Army University of Engineering & Technology (BAUET)

Qadirabad Cantonment, Natore-6431



Lab Report

Course Code: CSE-1214

Course Title: Structured Programming Sessional

Experiment No: 10

Experiment: C Programming

Experiment Date: 17 September 2023

Submission Date: 24 September 2023

Submitted By

Name: Hussain Mohammad Jubayed

Dept.: Computer Science and Engineering

ID: 0812220205101041

Batch: 16th

Submitted To

Bristi Rani Roy

Lecturer, Dept. of CSE, BAUET

Redoanul Haque

Lecturer, Dept. of CSE, BAUET

Bangladesh Army University of Engineering & Technology (BAUET)

Qadirabad Cantonment, Natore-6431



Lab Report

Course code: EEE-1262

Course title: Electrical Circuit Analaysis Sessional

Experiment no: 09

Experiment: Varification of Maximum Power Transfer Theorem.

Experiment Date: 18 Sep 2023

Submission Date: 25 Sep 2023

Submitted By

Name: Hussain Mohammad Jubayed

Dept.: Computer Science and Engineering

ID: 0812220205101041

Batch: 16th

Submitted To

Ashik Alam

Assistant Professor

Dept. of EEE

```
ere X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X p8.c X p9.c X p10.c X
1 #include<stdio.h>
2
    int sum(int i,int j)
                                         © "D:\lab 10\p1.exe"
3 □{
4
         return i+j;
                                        256
5
                                        652
    int main()
6
                                        sum = 908
7
   □ {
                                        Process returned 0 (0x
8
         int n,m;
         scanf("%d%d",&n,&m);
9
                                        Press any key to contin
10
         printf("sum = %d", sum(n, m));
11
12
```

```
here X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X
                                                   © TD:\lab 10\p2.exe"
                                                                           ×
     #include<stdio.h>
 1
   int sub(int i,int j)
 2
                                                  321
 21
          return i-j;
 4
                                                  Substraction = 300
    L<sub>}</sub>
 5
                                                 Process returned 0 (0x0)
 6
    int main()
                                                 Press any key to continue.
 8
          int n,m;
 9
          scanf("%d%d",&n,&m);
         printf("Substraction = %d", sub(n,m));
10
11
12
13
```

```
ோ "D:\lab 10\p3.exe"
nere X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X
      #include<stdio.h>
 1
                                                 5
     float Div(float i,float j)
 2
                                                 10
 3
                                                 Division = 0.50
 4
          return i/j;
 5
                                                 Process returned 0 (0x0)
 6
    int main()
                                                 Press any key to continue.
 7
    ₽{
 8
          float n,m;
          scanf("%f%f",&n,&m);
 9
          printf("Division = %.2f", Div(n,m));
10
11
12
13
14
```

```
ere X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X p8.c X p9.c X p10.c X p11.c
1 #include<stdio.h>
                                          ©\ "D:\lab 10\p4.exe"
2
    int max(int i,int j)
5
4
         if(j>i)j^=i^=j^=i;
                                        6
5
         return i;
 6
                                        Maximum = 6
7
    int main()
                                        Process returned 0 (0x0)
Press any key to continue
9
         int n,m;
10
         scanf("%d%d",&n,&m);
11
         printf("Maximum = %d", max(n, m));
12
13
14
15
```

```
1
   #include<stdio.h>
                                               ©\ "D:\lab 10\p5.exe"
2 in
3 \boxminus {
    int min(int i,int j)
                                             5
         if(j>i) j^=i^=j^=i;
                                             6
5
         return j;
6
                                             Minimum = 5
7
    int main()
                                             Process returned 0 (0x0)
Press any key to continue.
9
         int n,m;
10
         scanf("%d%d",&n,&m);
11
         printf("Minimum = %d", min(n, m));
12
13 <sup>L</sup>}
14
15
```

```
ere X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X p8.c X
 #include<staro.n.
| dint area(int l, int w) {
| dint area(int l, int l, int w) {
| dint area(int l, int l, in
                                                                                                                                                                                                                                                                                                                                                                                                                                     ©\ "D:\lab 10\p6.exe"
                                                                                                                                                                                                                                                                                                                                                                                                                              5
                      return 1*w;
                                                                                                                                                                                                                                                                                                                                                                                                                             6
   4
   5
                                int main()
                                                                                                                                                                                                                                                                                                                                                                                                                             Area = 30 square unit.
  6
                       ₽{
                                                                                                                                                                                                                                                                                                                                                                                                                              Process returned 0 (0x6
   7
                                                                       int n,m;
                                                                                                                                                                                                                                                                                                                                                                                                                              Press any key to contir
  8
                                                                       scanf("%d%d",&n,&m);
 9
                                                                       printf("Area = %d square unit.", area(n,m));
LO
```

```
here X p1.c X p2.c X p3.c X p4.c X p5.
                                  © "D:\lab 10\p7.exe"
 1 #include<stdio.h>
     #define PI 3.1416
                                 10
     float area(float r)
                                 314.16
  Process returned 0 (0x0)
  5
          return PI*r*r;
                                 Press any key to continue.
  6
 7
     int main()
 8 🗏 {
 9
         float n;
 10
          scanf("%f",&n);
         printf("%.2f",area(n));
 11
 12
 13
```

```
©\ "D:\lab 10\p8.exe"
1
    #include<stdio.h>
2
    int min(int a,int b,int c)
                                              2
1
4
       if(a>b) {a^=b^=a^=b;}
5
       if(a>c) {a^=c^=a^=c;}
                                              5
6
       return a;
                                             Minimum = 1
7
                                             Process returned 0
8
    int main()
                                             Press any key to c
0
        int n,m,p;
1
        scanf("%d%d%d", &n, &m, &p);
2
        printf("Minimum = %d",min(n,m,p));
3
```

```
here X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X p8.c X p9.c X p10
      #include<stdio.h>
                                             ©\(\text{"D:\lab 10\p9.exe"}\)
 2 int max(int a,int b,int c)
 2
 4
          if(a>b&&a>c)return a;
                                            6
  5
          if (b>c&&b>a) return b;
  6
          if(c>b&&c>a)return c;
                                            3
 7
                                            Max = 6
 8
      int main()
                                            Process returned 0 (
 9
    □ {
                                            Press any key to con
 10
           int n,m,p;
          scanf ("%d%d%d", &n, &m, &p);
 11
          printf("Max = %d", max(n, m, p));
 13
 14
 15
```

```
1
      #include<stdio.h>
                                                  © "D:\lab 10\p10.exe
 2
     int min(int a,int b,int c)
 3 □{
                                                 25
 4
         if((a>b&&a<c)||(a>c&&a<b))return a;</pre>
                                                 36
 5
         if((b>c&&b<a)||(b>a&&b<c))return b;</pre>
                                                 30
 6
         if((c>b&&c<a)||(c>a&&c<b))return c;</pre>
                                                 Medium = 30
 7
 8
     int main()
                                                 Process return
 9
    ₽{
                                                 Press any key
10
          int n,m,p;
          scanf("%d%d%d",&n,&m,&p);
11
12
          printf("Medium = %d",min(n,m,p));
13
14
15
16
```

```
1
  #include<stdio.h>
2
    int fac(int a)
                                                   ©\\ "D:\lab 10\p11.exe"
4
         int s=1;
5 |
6
7
         for(int i=1;i<=a;i++)s=s*i;</pre>
                                                  Factorial of 5 = 120
         return s;
                                                  Process returned 0 (0x
8
    int main()
                                                  Press any key to conti
9
  □ {
LO
         int n;
         scanf("%d",&n);
11
12
        printf("Factorial of %d = %d",n,fac(n));
13
    }
L 4
```

```
1
    #include<stdio.h>
2
    int sum(int a)
3 ⊟{
4
         int b=0;
5
        while (a)
6
7
           b= b+a%10;
8
           a=a/10;
9
0
         return b;
1
    int main()
2
3
   □ {
4
         int n;
5
         scanf("%d", &n);
        printf("Sum of '%d' Digit = %d",n,sum(n));
6
7
    }
            ©\ "D:\lab 10\p12.exe"
                                           + | ~
                                      ×
           356
           Sum of '356' Digit = 14
           Process returned 0 (0x0) execution time
           Press any key to continue.
```

```
1
      #include<stdio.h>
2
      float sum(int a)
 3 ⊟{
 4
          int b=0,d;
 5
         float c;
 6
         while (a)
7
8
             d = a%10;
9
             a = a/10;
            c = sqrt(d);
10
            printf("Root of %d = %.2f n,d,c);
11
12
13
14
      int main()
15
          int n;
16
17
          scanf("%d", &n);
18
          sum(n);
19
      }
20
          ©\( \text{"D:\lab 10\p13.exe} \)
                                    \times
                                         + ~
         248
         Root of 8 = 2.83
        Root of 4 = 2.00
         Root of 2 = 1.41
        Process returned 0 (0x0) execution
         Press any key to continue.
```

```
#include<stdio.h>
1
      int rev(int a)
2
3
    \square {
4
          int b=0;
5
          while (a)
6
7
             b=b*10+a%10;
8
             a=a/10;
9
.0
          return b;
.1
     L }
.2
      int main()
.3
    \square {
. 4
          int n;
.5
          scanf("%d", &n);
          printf("Reverse = %d", rev(n));
.6
.7
     }
.8
               ©\ "D:\lab 10\p14.exe"
                                            ×
              631
              Reverse = 136
              Process returned 0 (0x0)
              Press any key to continue.
```