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
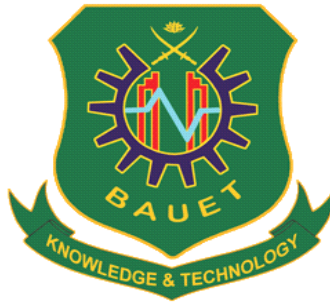
Bristi Rani Roy

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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**

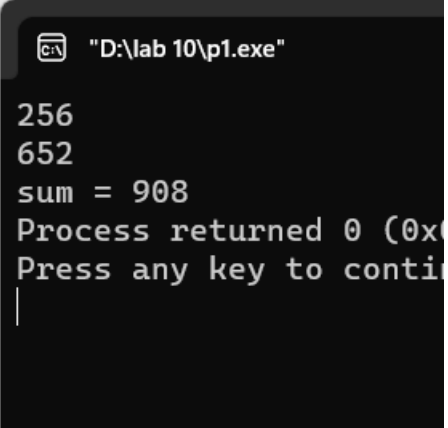Dept. : Computer Science and Engineering

ID : 0812220205101041

Batch : 16th

Submitted To

Ashik Alam

Assistant Professor

Dept. of EEE

```c
#include<stdio.h>
int sum(int i,int j)
{
    return i+j;
}
int main()
{
    int n,m;
    scanf("%d%d",&n,&m);
    printf("sum = %d",sum(n,m));
}
```

```
C:\    "D:\lab 10\p1.exe"

256
652
sum = 908
Process returned 0 (0x
Press any key to conti
```

```c
#include<stdio.h>
int sub(int i,int j)
{
    return i-j;
}
int main()
{
    int n,m;
    scanf("%d%d",&n,&m);
    printf("Substraction = %d",sub(n,m));
}
```

```
"D:\lab 10\p2.exe"                    ✕

321
21
Substraction = 300
Process returned 0 (0x0)
Press any key to continue.
```

```c
#include<stdio.h>
float Div(float i,float j)
{
    return i/j;
}
int main()
{
    float n,m;
    scanf("%f%f",&n,&m);
    printf("Division = %.2f",Div(n,m));
}
```

```
 "D:\lab 10\p3.exe"                        ×
5
10
Division = 0.50
Process returned 0 (0x0)
Press any key to continue.
```

```
1    #include<stdio.h>
2    int max(int i,int j)
3    {
4        if(j>i)j^=i^=j^=i;
5        return i;
6    }
7    int main()
8    {
9        int n,m;
10       scanf("%d%d",&n,&m);
11       printf("Maximum = %d",max(n,m));
12
13   }
14
15
```

```
"D:\lab 10\p4.exe"          ✕

5
6
Maximum = 6
Process returned 0 (0x0)
Press any key to continue
```

```c
#include<stdio.h>
int min(int i,int j)
{
    if(j>i)j^=i^=j^=i;
    return j;
}
int main()
{
    int n,m;
    scanf("%d%d",&n,&m);
    printf("Minimum = %d",min(n,m));

}
```

```
5
6
Minimum = 5
Process returned 0 (0x0)    e
Press any key to continue.
```

```c
#include<stdio.h>
int area(int l,int w){
return l*w;
}
int main()
{
    int n,m;
    scanf("%d%d",&n,&m);
    printf("Area = %d square unit.",area(n,m));
}
```

"D:\lab 10\p6.exe"

```
5
6
Area = 30 square unit.
Process returned 0 (0x0
Press any key to contin
```

```c
#include<stdio.h>
#define PI 3.1416
float area(float r)
{
    return PI*r*r;
}
int main()
{
    float n;
    scanf("%f",&n);
    printf("%.2f",area(n));
}
```

"D:\lab 10\p7.exe"   ✕

```
10
314.16
Process returned 0 (0x0)
Press any key to continue.
```

```
#include<stdio.h>
int min(int a,int b,int c)
{
    if(a>b){a^=b^=a^=b;}
    if(a>c){a^=c^=a^=c;}
    return a;
}
int main()
{
    int n,m,p;
    scanf("%d%d%d",&n,&m,&p);
    printf("Minimum = %d",min(n,m,p));
}
```

```
"D:\lab 10\p8.exe"

2
1
5
Minimum = 1
Process returned 0
Press any key to c
```

```c
#include<stdio.h>
int max(int a,int b,int c)
{
    if(a>b&&a>c)return a;
    if(b>c&&b>a)return b;
    if(c>b&&c>a)return c;
}
int main()
{
    int n,m,p;
    scanf("%d%d%d",&n,&m,&p);
    printf("Max = %d",max(n,m,p));
}
```

```
CN  "D:\lab 10\p9.exe"

2
6
3
Max = 6
Process returned 0 (
Press any key to con
```

```c
#include<stdio.h>
int min(int a,int b,int c)
{
    if((a>b&&a<c)||(a>c&&a<b))return a;
    if((b>c&&b<a)||(b>a&&b<c))return b;
    if((c>b&&c<a)||(c>a&&c<b))return c;
}
int main()
{
    int n,m,p;
    scanf("%d%d%d",&n,&m,&p);
    printf("Medium = %d",min(n,m,p));
}
```

```
"D:\lab 10\p10.exe

25
36
30
Medium = 30
Process return
Press any key
```

```c
#include<stdio.h>
int fac(int a)
{
    int s=1;
    for(int i=1;i<=a;i++)s=s*i;
    return s;
}
int main()
{
    int n;
    scanf("%d",&n);
    printf("Factorial of %d = %d",n,fac(n));
}
```

```
"D:\lab 10\p11.exe"

5
Factorial of 5 = 120
Process returned 0 (0x
Press any key to conti
```

```c
#include<stdio.h>
int sum(int a)
{
    int b=0;
    while(a)
    {
        b= b+a%10;
        a=a/10;
    }
    return b;
}
int main()
{
    int n;
    scanf("%d",&n);
    printf("Sum of '%d' Digit = %d",n,sum(n));
}
```

```
C:\  "D:\lab 10\p12.exe"        ×    +    ∨

356
Sum of '356' Digit = 14
Process returned 0 (0x0)    execution ti
Press any key to continue.
```

```c
#include<stdio.h>
float sum(int a)
{
    int b=0,d;
    float c;
    while(a)
    {
        d = a%10;
        a = a/10;
        c = sqrt(d);
        printf("Root of %d = %.2f \n",d,c);
    }
}
int main()
{
    int n;
    scanf("%d",&n);
    sum(n);
}
```

```
"D:\lab 10\p13.exe"          ×    +    ∨

248
Root of 8 = 2.83
Root of 4 = 2.00
Root of 2 = 1.41

Process returned 0 (0x0)    execution t
Press any key to continue.
```

```c
#include<stdio.h>
int rev(int a)
{
    int b=0;
    while(a)
    {
        b=b*10+a%10;
        a=a/10;
    }
    return b;
}
int main()
{
    int n;
    scanf("%d",&n);
    printf("Reverse = %d",rev(n));
}
```

```
C\  "D:\lab 10\p14.exe"                    ×      +

631
Reverse = 136
Process returned 0 (0x0)    exe
Press any key to continue.
```