

Bangladesh Army University of Engineering & Technology (BAUET)

Qadirabad Cantonment, Natore-6431



Assignment

Course Code : CSE-1214

Course Title : Structured Programming Sessional

Submission Date : 17 September 2023

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BAUET

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```
X *p15.c X p1.c X p2.c X p3.c X p4.c X p5.c X p6.c X p7.c X
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char a[100],i=0;
6      gets(a);
7      while(a[i]!='\0'){
8          i++;
9      }
10     printf("%d",i);
11     return 0;
12 }
13
```

C:\Users\LENOVO\AppData\Local\Microsoft\Windows\Terminal

Tamima
6
Process returned 0 (0x0) execution time: 0.000 s
Press any key to continue.

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char a[100];
6      int i=0,j=0;
7      gets(a);
8      while(a[i]!='\0'){
9          if(a[i]==' '){
10             j++;
11         }
12         i++;
13     }
14     printf("%d",j+1);
15     return 0;
16 }
17
18
```

C:\Users\LENOVO\AppData\Local

Tamima Azad

2

Process returned 0 (0)

Press any key to continue

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      scanf("%d %d",&a,&b);
6      a^=b^=a^=b;
7      printf("%d %d",a,b);
8  }
9

```

```

C:\Users\LENOVO\AppData\Local\Microsoft\Windows\Terminal
11
99
99 11
Process returned 0 (0x0)   execution time: 0.000 s
Press any key to continue.

```

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b,m;
5      scanf("%d %d",&a,&b);
6      m=(a>b)?a:b;
7      printf("%d",m);
8  }
9

```

```

C:\Users\LENOVO\AppData\Local\Microsoft\Windows\Terminal
21
81
81
Process returned 0 (0x0)   execution time: 0.000 s
Press any key to continue.

```

```

1  #include<stdio.h>
2  int main()
3  {
4      int y;
5      scanf("%d",&y);
6      (y%4==0)?(y%100!=0)?printf("leap year")
7              :(y%400==0)?printf("leap year")
8              :printf("not leap year"):printf("not leap year");
9  }
0

```

C:\Users\LENOVO\AppData\L... × + ▾

```

2028
leap year
Process returned 0 (0x0)    execution time : 4.829 s
Press any key to continue.
|

```

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b;
5      scanf("%d %d",&a,&b);
6      (a>b)?printf("%d is maximum ",a)
7          :printf("%d is maximum",b);
8  }
9

```

C:\Users\LENOVO\AppData\L... × + ▾

```

11
89
89 is maximum
Process returned 0 (0x0)    executi
Press any key to continue.
|

```

```
*p15.c 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
#include<stdio.h>
int main()
{
    int a,b,c,max;
    scanf("%d %d %d",&a,&b,&c);
    max=(a>b)?((a>c)?a:c):(b>c?b:c);
    printf("%d is max",max);
}

C:\Users\LENOVO\AppData\Local\Microsoft\Windows\Terminal
36
47
98
98 is max
Process returned 0 (0x0)    execution time : 9.1 s
Press any key to continue.
```

```
#include<stdio.h>
int main()
{
    int num;
    scanf("%d",&num);
    (num%2==0)?printf("%d is even",num)
    :printf("%d is odd",num);
}

C:\Users\LENOVO\AppData\Local\Microsoft\Windows\Terminal
65
65 is odd
Process returned 0 (0x0)    execution time : 0.1 s
Press any key to continue.
```

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    char a;
```

```
    scanf("%c",&a);
```

```
    (a>=65&&a<=122)?printf("%c is alphabet",a)
```

```
:printf("%c is not alphabet",a);
```

```
}
```



C:\Users\LENOVO\AppData\L



A

A is alphabet

Process returned 0 (0x0) execution ti

Press any key to continue.

```

1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      int n;
6      scanf("%d",&n);
7      char a[n+1][100],b[100];
8      for(int i=0; i<=n; i++ )
9      {
10         gets(a[i]);
11     }
12     for(int i=0; i<=n; i++){
13         for(int j=i; j<=n; j++){
14             if(strcmp(a[i],a[j])>0){
15                 strcpy(b,a[i]);
16                 strcpy(a[i],a[j]);
17                 strcpy(a[j],b);
18             }
19         }
20     }
21     for(int i=0; i<=n; i++){
22         puts(a[i]);
23     }
24 }

```

```

"D:\Lab 9\p10.exe"
3
Java
Python
C Programming

C Programming
Java
Python

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

```



```

1  #include<stdio.h>
2  int main()
3  {
4      int n,n1,s=0,b=0,d=0;
5      printf("Enter a decimal no:");
6      scanf("%d",&n);
7      n1=n;
8      while(n>0){
9          n=n/2;
10         s++;
11     }
12     for(int i=0;i<s;i++){
13         b=b+((n1>>i)&1)*pow(10,i);
14     }
15     printf("Binary=%d\n",b);
16
17     for(int i=0;i<s;i++){
18         d=d+((n1>>i)&1)*pow(2,i);
19     }
20     printf("Decimal=%d",d);
21 }

```

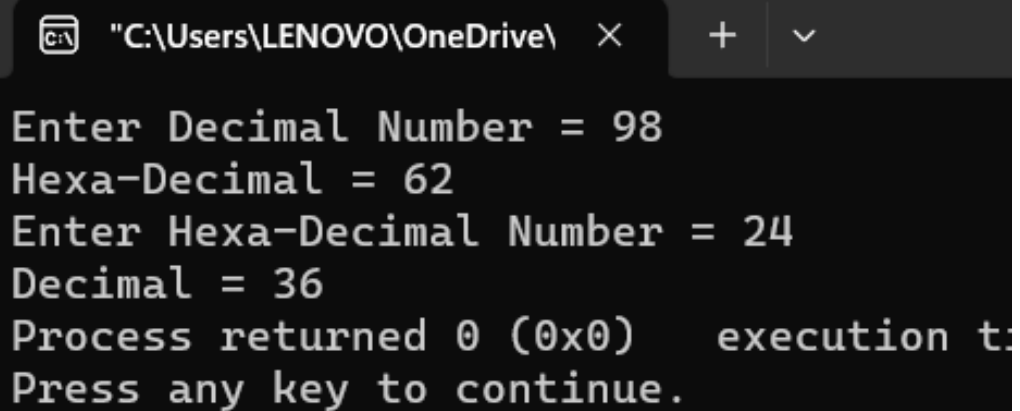
"C:\Users\LENOVO\OneDrive\ X

```

Enter a decimal no:56
Binary=111000
Decimal=56
Process returned 0 (0x0)
Press any key to continue
|

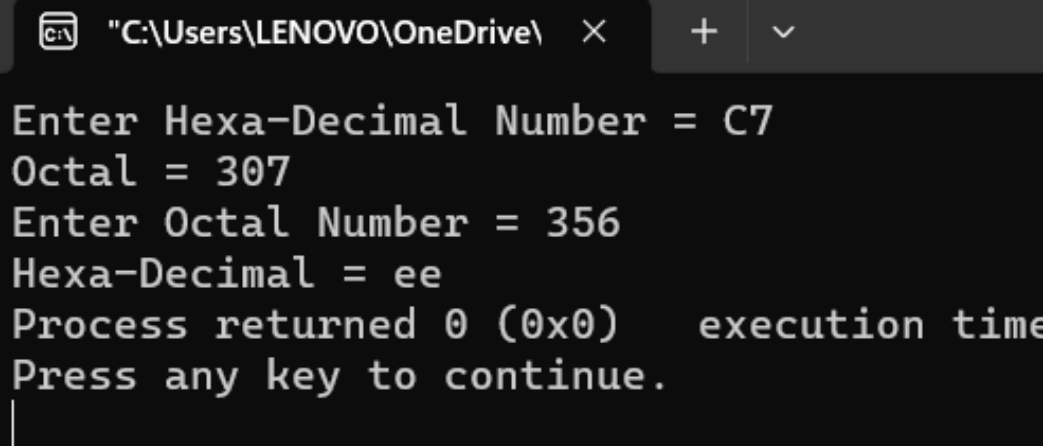
```

```
#include<stdio.h>
int main()
{
    int n,m;
    printf("Enter Decimal Number = ");
    scanf("%d",&n);
    printf("Hexa-Decimal = %x\n",n);
    printf("Enter Hexa-Decimal Number = ");
    scanf("%x",&m);
    printf("Decimal = %d",m);
}
```



```
"C:\Users\LENOVO\OneDrive\  ×  +  ▾
Enter Decimal Number = 98
Hexa-Decimal = 62
Enter Hexa-Decimal Number = 24
Decimal = 36
Process returned 0 (0x0)    execution t
Press any key to continue.
```

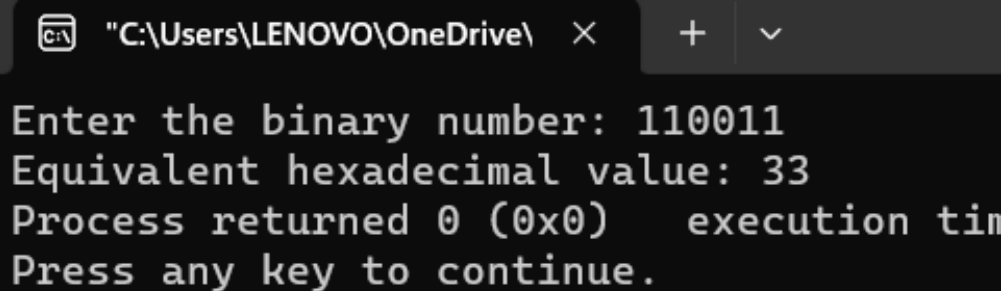
```
#include<stdio.h>
int main()
{
    int n,m;
    printf("Enter Hexa-Decimal Number = ");
    scanf("%x",&n);
    printf("Octal = %o\n",n);
    printf("Enter Octal Number = ");
    scanf("%o",&m);
    printf("Hexa-Decimal = %x",m);
}
```



"C:\Users\LENOVO\OneDrive\ × + ▾

Enter Hexa-Decimal Number = C7
Octal = 307
Enter Octal Number = 356
Hexa-Decimal = ee
Process returned 0 (0x0) execution time
Press any key to continue.
|

```
#include<stdio.h>
int main() {
    long int b, h = 0, i = 1, r;
    printf("Enter the binary number: ");
    scanf("%ld", &b);
    while (b != 0) {
        r = b % 10;
        h = h + r * i;
        i = i * 2;
        b = b / 10;
    }
    printf("Equivalent hexadecimal value: %lX", h);
    return 0;
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\LENOVO\OneDrive\". The window contains the following text:

```
Enter the binary number: 110011
Equivalent hexadecimal value: 33
Process returned 0 (0x0)   execution time: 0.000 s
Press any key to continue.
```

```
#include <stdio.h>
int findOddOccuring(int arr[], int n)
{
    int xor = 0;
    for (int i = 0; i < n; i++) {
        xor = xor ^ arr[i];
    }
    return xor;
}

int main()
{
    int arr[] = { 4, 3, 6, 2, 6, 4, 2, 3, 4, 3, 3 };
    int n = sizeof(arr) / sizeof(arr[0]);
    printf("The odd occurring element is %d", findOddOccuring(arr, n));
    return 0;
}
```

"C:\Users\LENOVO\OneDrive\ × + ▾

The odd occurring element is 4
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
|