

**Bangladesh University of Business & Technology
(BUBT)**



Lab Report

Course Title : Structured Programming Language Lab

Course Code : CSE 102

Experiment No : 01

Experiment Name : IF ELSE

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Intake: 56

Section: 09

Program: CSE

Submitted To

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Department: CSE

Lecturer,

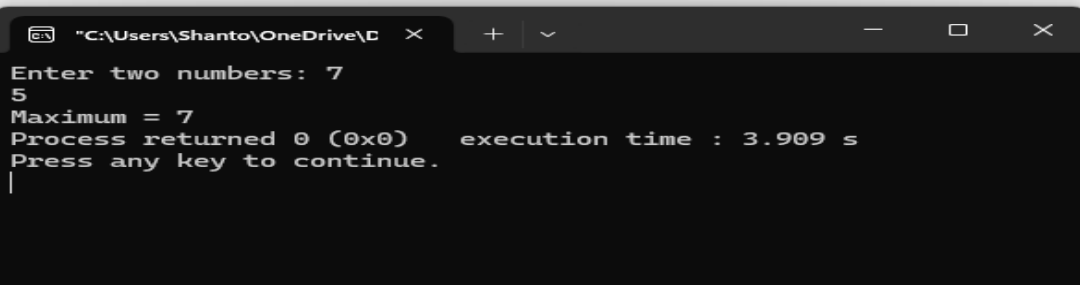
**Bangladesh University of
Business & Technology.**

Date of Submission: 23-10-25

Signature of Teacher

Problem-1: C program to find the maximum between two numbers

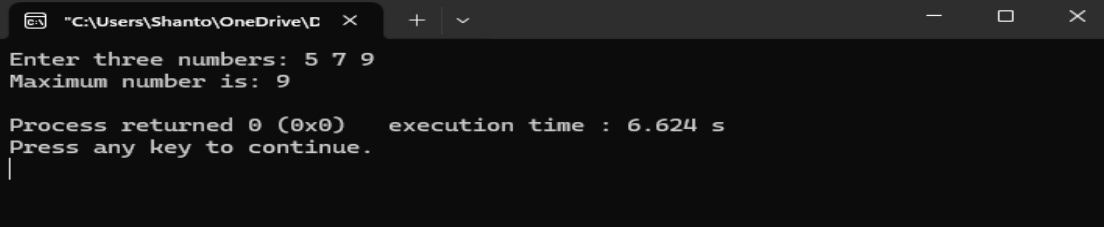
```
//Shanto
#include <stdio.h>
int main()
{
    int num1, num2;
    printf("Enter two numbers: ");
    scanf("%d%d", &num1, &num2);
    if(num1 > num2){
        printf("Maximum = %d", num1);
    } else{
        printf("Maximum = %d", num2);
    }
    return 0;
}
```



```
"C:\Users\Shanto\OneDrive\CD" x + -
Enter two numbers: 7 5
Maximum = 7
Process returned 0 (0x0) execution time : 3.909 s
Press any key to continue.
```

Problem-2: C program to find maximum between three numbers

```
//Shanto
#include <stdio.h>
int main() {
    int a, b, c;
    printf("Enter three numbers: ");
    scanf("%d %d %d", &a, &b, &c);
    if (a >= b && a >= c) {
        printf("Maximum number is: %d\n", a);
    } else if (b >= a && b >= c) {
        printf("Maximum number is: %d\n", b);
    } else {
        printf("Maximum number is: %d\n", c);
    }
    return 0;
}
```

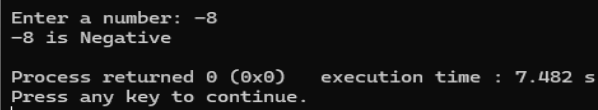


```
"C:\Users\Shanto\OneDrive\CD" x + -
Enter three numbers: 5 7 9
Maximum number is: 9

Process returned 0 (0x0) execution time : 6.624 s
Press any key to continue.
```

Problem-3: C program to check whether a number is positive, negative or zero

```
//Shanto
#include <stdio.h>
int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    if(num > 0) {
        printf("%d is Positive\n", num);
    } else if (num < 0) {
        printf("%d is Negative\n", num);
    } else {
        printf("The number is Zero\n");
    }
    return 0;
}
```

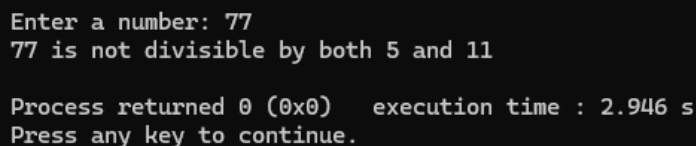


```
Enter a number: -8
-8 is Negative

Process returned 0 (0x0)   execution time : 7.482 s
Press any key to continue.
```

Problem-4: C program to check whether a number is divisible by 5 and 11 or not

```
//Shanto
#include <stdio.h>
int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    if (num % 5 == 0 && num % 11 == 0) {
        printf("%d is divisible by both 5 and 11\n", num);
    }
    else {
        printf("%d is not divisible by both 5 and 11\n", num);
    }
    return 0;
}
```

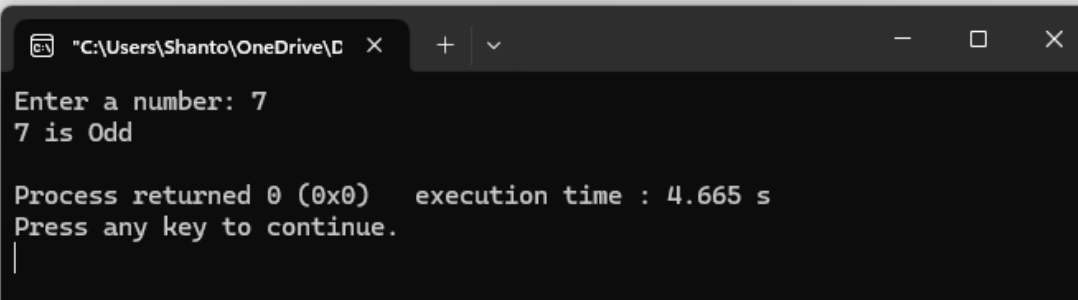


```
Enter a number: 77
77 is not divisible by both 5 and 11

Process returned 0 (0x0)   execution time : 2.946 s
Press any key to continue.
```

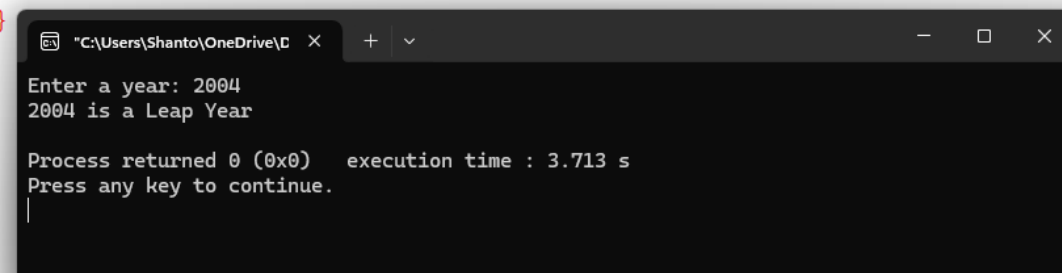
Problem-5: C program check whether a number is even or odd

```
//Shanto
#include <stdio.h>
int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    if(num % 2 == 0) {
        printf("%d is Even\n", num);
    } else{
        printf("%d is Odd\n", num);
    }
    return 0;
}
```



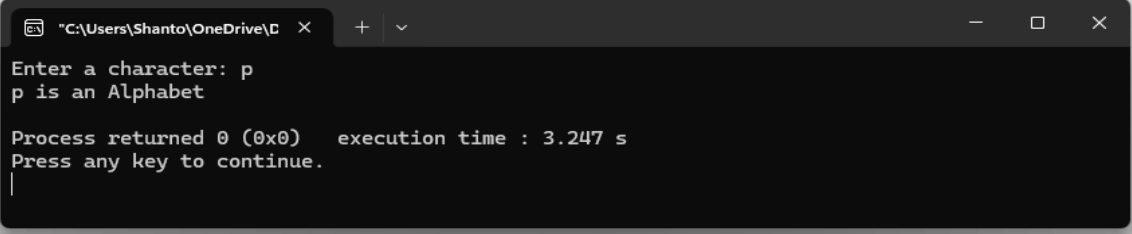
Problem-6: C program to check Leap Year

```
//Shanto
#include <stdio.h>
int main() {
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);
    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
        printf("%d is a Leap Year\n", year);
    } else {
        printf("%d is not a Leap Year\n", year);
    }
    return 0;
}
```



Problem-7: C program to check whether a character is alphabet or not

```
//Shanto
#include <stdio.h>
int main() {
    char ch;
    printf("Enter a character: ");
    scanf("%c", &ch);
    if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z')) {
        printf("%c is an Alphabet\n", ch);
    }
    else {
        printf("%c is not an Alphabet\n", ch);
    }
    return 0;
}
```

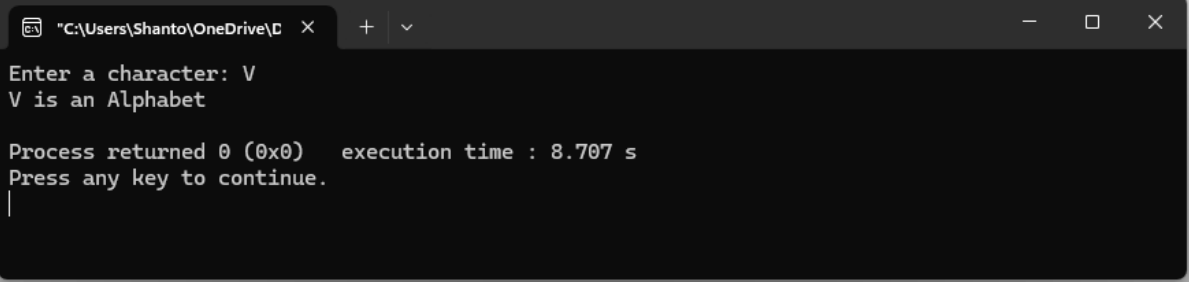


```
Enter a character: p
p is an Alphabet

Process returned 0 (0x0)   execution time : 3.247 s
Press any key to continue.
|
```

Problem-8: C program to check vowel or consonant

```
//Shanto
#include <stdio.h>
int main() {
    char ch;
    printf("Enter a character: ");
    scanf("%c", &ch);
    if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z')) {
        printf("%c is an Alphabet\n", ch);
    }
    else {
        printf("%c is not an Alphabet\n", ch);
    }
    return 0;
}
```

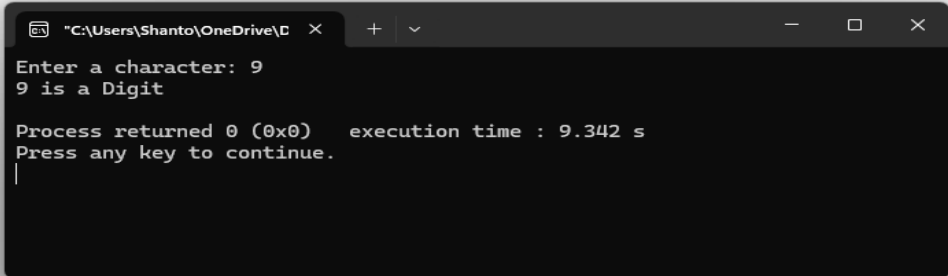


```
Enter a character: V
V is an Alphabet

Process returned 0 (0x0)   execution time : 8.707 s
Press any key to continue.
|
```

Problem-9: C program to check whether a character is alphabet, digit or special character

```
//Shanto
#include <stdio.h>
int main() {
    char ch;
    printf("Enter a character: ");
    scanf("%c", &ch);
    if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z')) {
        printf("%c is an Alphabet\n", ch);
    } else if (ch >= '0' && ch <= '9') {
        printf("%c is a Digit\n", ch);
    } else {
        printf("%c is a Special Character\n", ch);
    }
    return 0;
}
```

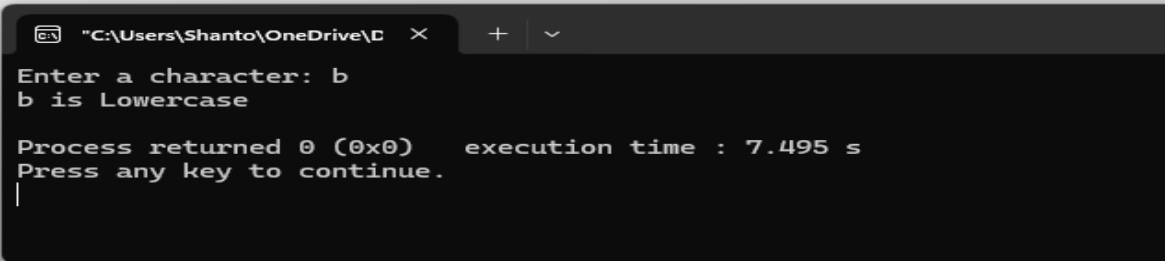


Enter a character: 9
9 is a Digit

Process returned 0 (0x0) execution time : 9.342 s
Press any key to continue.

Problem-10: C program to check whether a character is Uppercase or Lowercase

```
//Shanto
#include <stdio.h>
int main() {
    char ch;
    printf("Enter a character: ");
    scanf("%c", &ch);
    if (ch >= 'A' && ch <= 'Z') {
        printf("%c is Uppercase\n", ch);
    }
    else if (ch >= 'a' && ch <= 'z') {
        printf("%c is Lowercase\n", ch);
    }
    else {
        printf("%c is not an alphabet\n", ch);
    }
    return 0;
}
```



Enter a character: b
b is Lowercase

Process returned 0 (0x0) execution time : 7.495 s
Press any key to continue.