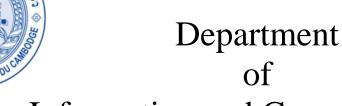
## Institute of Technology of Cambodia



Information and Communication Engineering (GIC)

## Assignment9 Lab08- Work with Function

Lecturer : Bou Channa

Subject : Algorithms and Programming (TP)

Student : Heang Sopagna

ID : e20180259

Group : GIC-A

```
🔞 66. C programming-Lab08- Work with Function.c 🗶 67. C programming-Lab08- Work with Function.c 🗶 68. C programming-Lab08- Work with Function.c 🗶
             #include<stdio.h>
             #include<string.h>
      2
            void testIfExist(char s[50], char c);
      3
      4
          _ main() {
      5
                 char cha;
                 char string[50];
      6
      7
                 printf("Enter a string: "); gets(string);
                 printf("Enter a character: "); scanf("%c",&cha);
      8
      9
                 testIfExist(string,cha);
     10
                                                          "D:\school\Year3\2. Algorithm & Programming (S1)\TP\68. C programming-Lab08- \
     11
          void testIfExist(char s[50], char c){
                                                         Enter a string: hello world
     12
                 int n, status;
                                                        Enter a character: l
     13
                 n=strlen(s);
                                                        The character l exist in string hello world
                 for(int i=0;i<n;i++) {
     14
                                                         Process returned 0 (0x0)
                                                                                      execution time : 10.108 s
     15
                      if(s[i]==c){
                                                         Press any key to continue.
     16
                          status=1;
     17
                          printf("The character %c exist in string %s",c,s);
     18
     19
     20
     21
                 if(status!=1){
     22
                     printf("The character %c not exist in string %s",c,s);
     23
     24
     25
<
🖞 66. C programming-Lab08- Work with Function.c 🗶 67. C programming-Lab08- Work with Function.c 🗶 68. C programming-Lab08- Work with Function.c
```

```
1
       #include<stdio.h>
 2
       #include<stdbool.h>
 3
       bool checkPrime(int n);
 4
     5
            int num;
            printf("Enter a number: ");scanf("%d", &num);
 6
 7
            checkPrime(num);
 8
                                       "D:\school\Year3\2. Algorithm & Programming (S1)\TP\67. C programming-Lab08- Work with F
9
     Dool checkPrime(int n) {
                                      Enter a number: 17
10
            bool status=true;
                                      The number 17 is primary number
11
            for(int i=2;i<n;i++) {
                                      Process returned 0 (0x0)
                                                                 execution time : 3.888 s
12
                if (n%i==0) {
                                      Press any key to continue.
13
                     status=false;
14
                     break;
15
16
17
            if(status==true){
18
                printf("The number %d is primary number",n);
19
20
            else{
21
                printf("The number %d is not primary number", n);
22
23
24
```

```
👲 66. C programming-Lab08- Work with Function.c 🗶 67. C programming-Lab08- Work with Function.c 🗶 68. C programming-Lab08- Work with Function.c
            #include<stdio.h>
     2
            long long findFactorial(int n);
     3
            long long computeSeries(int n);
      4
           main(){
      5
                int n:
      6
                long long total;
      7
                printf("Enter a number: "); scanf("%d",&n);
      8
                total=computeSeries(n);
     9
                printf("The result of compute series is %lld", total);
    10
          long long computeSeries(int n){
    11
    12
                long long subresult=1, result, total=1;
    13
                 for(int i=2;i<=n;i++) {
    14
                     subresult=subresult*i;
                                               "D:\school\Year3\2. Algorithm & Programming (S1)\TP\66. C programming-Lab08- Work with Fu
    15
                     result=subresult/i;
    16
                     total=total+result;
                                              Enter a number: 5
    17
                                              The result of compute series is 34
                                              Process returned 0 (0x0) execution time : 7.263 s
    18
                 return total;
    19
                                              Press any key to continue.
<
```

```
🔸 65. C programming-Lab08- Work with Function.c 🗶 66. C programming-Lab08- Work with Function.c 🗶 67. C programming-Lab08- Work with Function.c 🗶
     1
             #include<stdio.h>
      2
             long long findFactorial(int n);
      3
      4
          main() {
      5
                 int n;
      6
                 long long result;
      7
                 printf("Enter a number: "); scanf("%lld",&n);
     8
                 result=findFactorial(n);
                 printf("The result of Factorial number is %lld", result);
     9
     10
          long long findFactorial(int n){
     11
     12
                 long long result=1;
     13
                 for(int i=2;i<=n;i++) {
     14
                     result=result*i;
     15
     16
                 return result;
                                     "D:\school\Year3\2. Algorithm & Programming (S1)\TP\65. C programming-Lab08- Work with Function.exe
     17
                                    Enter a number: 5
     18
                                    The result of Factorial number is 120
                                    Process returned 0 (0x0)
                                                                  execution time : 2.955 s
                                    Press any key to continue.
<
```

```
4. C programming-Lab08- Work with Function.c 🗶 65. C programming-Lab08- Work with Function.c 🗶 66. C programming-Lab08- Work with Function.c 🗶
             #include<stdio.h>
      2
            void checkEvenOdd(int n);
      3
      4
           main(){
      5
                 int n;
                 printf("Enter a number: "); scanf("%d",&n);
      6
      7
                 checkEvenOdd(n);
      8
      9
     10
           void checkEvenOdd(int n) {
     11
                 if(n%2==0){
                     printf("The number is Even");
     12
     13
     14
                 else{
                     printf("The number is Odd");
     15
     16
     17
            }
                     "D:\school\Year3\2. Algorithm & Programming (S1)\TP\64. C programming-Lab08- Work with Function.exe"
     18
                    Enter a number: 10
                    The number is Even
                    Process returned 0 (0x0)
                                                   execution time : 3.869 s
                    Press any key to continue.
```