

Institute of Technology of Cambodia



Department of Information and Communication Engineering (GIC)

Assignment9 Lab08- Work with Function

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Subject : Algorithms and Programming (TP)

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```
1  #include<stdio.h>
2  #include<string.h>
3  void testIfExist(char s[50], char c);
4  main(){
5      char cha;
6      char string[50];
7      printf("Enter a string: "); gets(string);
8      printf("Enter a character: "); scanf("%c",&cha);
9      testIfExist(string,cha);
10 }
11 void testIfExist(char s[50], char c){
12     int n,status;
13     n=strlen(s);
14     for(int i=0;i<n;i++){
15         if(s[i]==c){
16             status=1;
17             printf("The character %c exist in string %s",c,s);
18             break;
19         }
20     }
21     if(status!=1){
22         printf("The character %c not exist in string %s",c,s);
23     }
24 }
25
```

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```
Enter a string: hello world
Enter a character: l
The character l exist in string hello world
Process returned 0 (0x0)   execution time : 10.108 s
Press any key to continue.
```

```
1  #include<stdio.h>
2  #include<stdbool.h>
3  bool checkPrime(int n);
4  main(){
5      int num;
6      printf("Enter a number: ");scanf("%d",&num);
7      checkPrime(num);
8  }
9  bool checkPrime(int n){
10     bool status=true;
11     for(int i=2;i<n;i++){
12         if(n%i==0){
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
```

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```
Enter a number: 17
The number 17 is primary number
Process returned 0 (0x0)   execution time : 3.888 s
Press any key to continue.
```

```
1  #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 }
11 long long computeSeries(int n){
12     long long subresult=1,result,total=1;
13     for(int i=2;i<=n;i++){
14         subresult=subresult*i;
15         result=subresult/i;
16         total=total+result;
17     }
18     return total;
19 }
20
```

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Enter a number: 5
The result of compute series is 34
Process returned 0 (0x0) execution time : 7.263 s
Press any key to continue.

```
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);
9      printf("The result of Factorial number is %lld",result);
10 }
11 long long findFactorial(int n){
12     long long result=1;
13     for(int i=2;i<=n;i++){
14         result=result*i;
15     }
16     return result;
17 }
18
```

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Enter a number: 5
The result of Factorial number is 120
Process returned 0 (0x0) execution time : 2.955 s
Press any key to continue.

```
1  #include<stdio.h>
2  void checkEvenOdd(int n);
3
4  main() {
5      int n;
6      printf("Enter a number: "); scanf("%d",&n);
7      checkEvenOdd(n);
8  }
9
10 void checkEvenOdd(int n){
11     if(n%2==0){
12         printf("The number is Even");
13     }
14     else{
15         printf("The number is Odd");
16     }
17 }
18
```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\64. C programming-Lab08- Work with Function.exe"

Enter a number: 10

The number is Even

Process returned 0 (0x0) execution time : 3.869 s

Press any key to continue.