

Institute of Technology of Cambodia



Department of Information and Communication Engineering (GIC)

Assignment5 Lab4-Work with Loop

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Subject : Algorithms and Programming (TP)

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```
1 #include<stdio.h>
2 main(){
3     int i,st,en,sum=0,mul=1;
4     printf("Input the start number : ");
5     scanf("%d",&st);
6     printf("Input the end number : ");
7     scanf("%d",&en);
8
9     printf("The number is ");
10    for(i=st;i<=en;i=i+1){
11        printf("%d,",i);
12        sum=sum+i;
13        mul=mul*i;
14    }
15
16    printf("\n\tThe summation of the above number is: %d",sum);
17    printf("\n\tThe multiplication of the above number is: %d",mul);
18
19 }
20
```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\19. C programming-Lab4-Work with Loop.exe"

Input the start number : 1
Input the end number : 10
The number is 1,2,3,4,5,6,7,8,9,10,
The summation of the above number is: 55
The multiplication of the above number is: 3628800
Process returned 0 (0x0) execution time : 3.256 s
Press any key to continue.

art here X 19. C programming-Lab4-Work with Loop.c X 20. C programming-Lab4-Work with Loop.c X 21. C programming-Lab4-Work with Loop.c X 22. C programming-Lab4-Work with Loop.c X

```
1 #include<stdio.h>
2 main(){
3     int m,n,i,j;
4     printf("Inout the start number : "); scanf("%d",&m);
5     printf("Input the ent number :"); scanf("%d",&n);
6     // for loop
7     printf("For loop\n");
8     for(i=m;i<=n;i=i+1){
9         printf("%d ",i);
10    }
11    //while loop
12    printf("\nWhile loop\n");
13    i=m;
14    while(i<=n){
15        printf("%d ",i);
16        i=i+1;
17    }
18    //do while loop
19    printf("\nDo while loop\n");
20    i=m;
21    do{
22        printf("%d ",i);
23        i=i+1;
24    }while(i<=n);
25 }
26
```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\20. C programming-Lab4-Work with Loop.exe"

Inout the start number : 1
Input the ent number :10
For loop
1 2 3 4 5 6 7 8 9 10
While loop
1 2 3 4 5 6 7 8 9 10
Do while loop
1 2 3 4 5 6 7 8 9 10
Process returned 0 (0x0) execution time : 21.487 s
Press any key to continue.

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```
1 #include<stdio.h>
2 #include<time.h>
3 main() {
4     int n,i=1;
5     srand(time(0));
6     int min=10, max=10000;
7     while(i<=10){
8
9         n=rand()%max+min;
10        printf("%d ",n);
11        i=i+1;
12    }
13
14 }
15
```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\21. C programming-Lab4-Work with Loop.exe"
488 127 833 443 1937 9748 2187 4308 2702 6579
Process returned 0 (0x0) execution time : 0.107 s
Press any key to continue.

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```
1 #include<stdio.h>
2 main() {
3
4     while(1){
5         int i,n;
6         int status=1;
7         printf("Enter the number: ");
8         scanf("%d",&n);
9
10        for(i=2;i<n;i=i+1){
11            if(n%i==0){
12                status=-1;
13                break;
14            }
15        }
16        if(status==1){
17            printf("Primary\n");
18        }else if(status==-1){
19            printf("NOT primary\n");
20        }
21    }
22 }
23
```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\22. C programming-Lab4-Work with Loop.exe"
Enter the number: 2
Primary
Enter the number: 3
Primary
Enter the number: 4
NOT primary
Enter the number: 5
Primary
Enter the number: 6
NOT primary
Enter the number: _

```

1  #include<stdio.h>
2  main() {
3      int i,n,max=0;
4      for(i=1;i<=10;i=i+1){
5          printf("Enter the number: ");
6          scanf("%d",&n);
7          if(max<n){
8              max=n;
9          }
10     }
11     printf("The max number is %d.",max);
12 }
13

```

"D:\school\Year3\2. Algorithm & Programming (S1)\TP\23. C programming-Lab4-Work with Loop.exe"

```

Enter the number: 39
Enter the number: 50
Enter the number: 26
Enter the number: 29
Enter the number: 34
Enter the number: 49
Enter the number: 38
Enter the number: 40
Enter the number: 48
Enter the number: 52
The max number is 52.
Process returned 0 (0x0)   execution time : 16.129 s
Press any key to continue.

```