Institute of Technology of Cambodia

Department
of
Information and Communication

Engineering (GIC)

Assignment5
Lab4-Work with Loop

Lecturer : Bou Channa

Subject : Algorithms and Programming (TP)

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Group : GIC-A

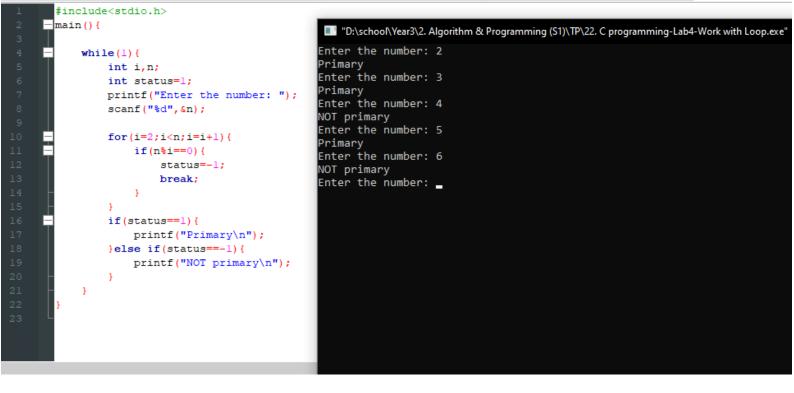
2020~2021

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        #include<stdio.h>
                                                         ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\19. C programming-Lab4-Work with Loop.exe"
       main(){
             int i,st,en,sum=0,mul=1;
                                                        Input the start number : 1
             printf("Input the start number: ");
                                                        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
             scanf("%d",&st);
             printf("Input the end number : ");
                                                                 The multiplication of the above number is: 3628800
             scanf("%d", &en);
                                                        Process returned 0 (0x0)
                                                                                      execution time : 3.256 s
                                                        Press any key to continue.
             printf("The number is ");
             for(i=st;i<=en;i=i+1){
                     printf("%d,",i);
                 sum=sum+i;
                 mul=mul*i;
             printf("\n\tThe summation of the above number is: %d", sum);
             printf("\n\tThe multiplication of the above number is: %d", mul);
```

```
#include<stdio.h>
-main(){
      int m.n.i.j;
      printf("Inout the start number : "); scanf("%d",&m);
      printf("Input the ent number :"); scanf("%d",&n);
      // for loop
      printf("For loop\n");
      for(i=m;i<=n;i=i+1) {</pre>
                                          ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\20. C programming-Lab4-Work with Loop.exe"
          printf("%d ",i);
                                         Inout the start number : 1
                                         Input the ent number :10
      //while loop
                                         For loop
     printf("\nWhile loop\n");
                                         1 2 3 4 5 6 7 8 9 10
      i=m;
                                         While loop
      while(i<=n){
                                         1 2 3 4 5 6 7 8 9 10
          printf("%d ",i);
                                         Do while loop
          i=i+1;
                                         1 2 3 4 5 6 7 8 9 10
                                         Process returned 0 (0x0)
                                                                       execution time : 21.487 s
      //do while loop
                                         Press any key to continue.
      printf("\nDo while loop\n");
      i=m;
          printf("%d ",i);
          i=i+1;
      }while(i<=n);</pre>
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          #include<stdio.h>
         #include<time.h>
       main(){
              int n, i=1;
                                            "D:\school\Year3\2. Algorithm & Programming (S1)\TP\21. C programming-Lab4-Work with Loop.exe"
                   srand(time(0));
                                           488 127 833 443 1937 9748 2187 4308 2702 6579
              int min=10, max=10000;
                                           Process returned 0 (0x0)
                                                                            execution time : 0.107 s
              while (i<=10) {
                                           Press any key to continue.
              n=rand()%max+min;
              printf("%d ",n);
              i=i+1;
```



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```
#include<stdio.h>
                                                     ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\23. C programming-Lab4-Work with Loop.exe"
main(){
      int i,n,max=0;
                                                     Enter the number: 39
Ξ
      for(i=1;i<=10;i=i+1){
                                                     Enter the number: 50
         printf("Enter the number: ");
                                                     Enter the number: 26
          scanf("%d",&n);
                                                    Enter the number: 29
          if(max<n){
                                                    Enter the number: 34
                                                    Enter the number: 49
Enter the number: 38
               max=n;
                                                     Enter the number: 40
                                                    Enter the number: 48
Enter the number: 52
      printf("The max number is %d.", max);
                                                    The max number is 52.
                                                                                   execution time : 16.129 s
                                                     Process returned 0 (0x0)
                                                     Press any key to continue.
```