## Institute of Technology of Cambodia



Information and Communication Engineering (GIC)

Assignment6
Lab05-Work with Loop (part II)

Lecturer : Bou Channa

Subject : Algorithms and Programming (TP)

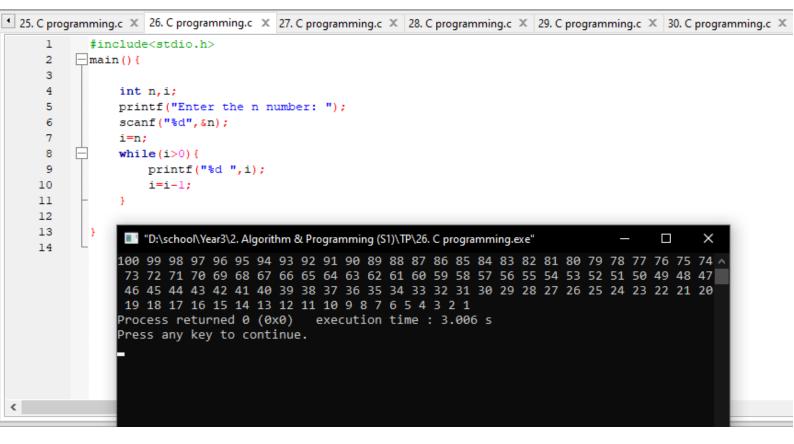
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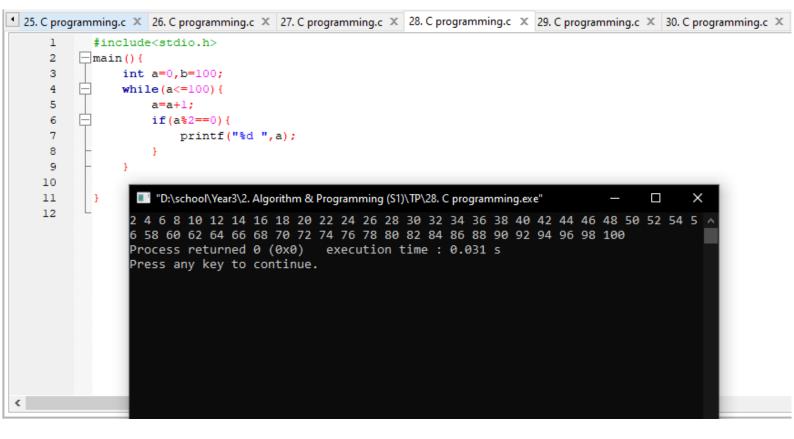
Group : GIC-A

2020~2021

```
1 25. C programming.c × 26. C programming.c × 27. C programming.c × 28. C programming.c × 29. C programming.c × 30. C programming.c ×
            #include<stdio.h>
     2
         main(){
     3
                int n,i;
     4
                printf("Enter the n number: ");
     5
                scanf("%d", &n);
      6
                i=1:
     7
                while(i<=n){
     8
                     printf("%d ",i);
     9
                     i=i+1:
     10
     11
     12
            }
                                                                                                      "D:\school\Year3\2. Algorithm & Programming (S1)\TP\25. C programming.exe"
     13
               1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
               33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61
               62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
               91 92 93 94 95 96 97 98 99 100
               Process returned 0 (0x0)
                                            execution time : 2.072 s
               Press any key to continue.
<
```



```
🛂 25. C programming.c 🗶 26. C programming.c 🗶 27. C programming.c 🗶 28. C programming.c 🗶 29. C programming.c 🗶 30. C programming.c 🗶
               #include<stdio.h>
       2
            main(){
       3
                   int a=96,b=121;
       4
                   char chr;
       5
            while (a<=b) {
       6
                        a=a+1;
       7
                        chr=a;
       8
                        printf("%c ",chr);
       9
      10
              }
      11
      12
                "D:\school\Year3\2. Algorithm & Programming (S1)\TP\27. C programming.exe"
               abcdefghijklmnopqrstuvwxyz
Process returned 0 (0x0) execution time : 0.017 s
               Press any key to continue.
 <
```



```
🛂 25. C programming.c 🗶 26. C programming.c 🗶 27. C programming.c 🗶 28. C programming.c 🗶 29. C programming.c 🗶 30. C programming.c 🗶
               #include<stdio.h>
            main(){
       3
                    int a=0;
       4
            while (a<=99) {
       5
                         a=a+1;
       6
                         if(a%2==1){
       7
                              printf("%d ",a);
       8
       9
                   }
      10
                             "D:\school\Year3\2. Algorithm & Programming (S1)\TP\29. C programming.exe"
                                                                                                                           ×
                                                                                                                   11
              }
                            1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 ^ 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
      12
                            Process returned 0 (0x0)
                                                             execution time : 0.062 s
                            Press any key to continue.
 <
```

```
25. C programming.c 🗶 26. C programming.c 🗶 27. C programming.c 🗶 28. C programming.c 🗶 29. C programming.c 🗶 30. C programming.c 🗶
             #include<stdio.h>
      2
          main(){
      3
      4
                 int num, i=0;
      5
                 printf("Enter a number: "); scanf("%d", &num);
      6
      7
          while (num>0) {
      8
                     num=num/10;
      9
                      i=i+1;
     10
     11
                 printf("The number have %d digits",i);
     12
             }
     13
                  "D:\school\Year3\2. Algorithm & Programming (S1)\TP\30. C programming.exe"
                 Enter a number: 100
                 The number have 3 digits
                 Process returned 0 (0x0)
                                               execution time : 2.034 s
                 Press any key to continue.
```

```
131. C programming.c × 32. C programming.c × 33. C programming.c × 34. C programming.c × 35. C programming.c × 36. C programming.c ×
            #include<stdio.h>
      2
          main(){
      3
                int num, last, sum;
                printf("Enter a number: "); scanf("%d",&num);
      4
      5
      6
                 last=num%10;
      7
         while (num>=10) {
      8
                     num=num/10;
      9
     10
                 sum=num+last;
                printf("The sum of first digit and last digit of the number is: %d", sum);
     11
    12
     13
                 "D:\school\Year3\2. Algorithm & Programming (S1)\TP\31. C programming.exe"
                Enter a number: 100
                The sum of first digit and last digit of the number is: 1
                Process returned 0 (0x0)
                                             execution time : 2.235 s
                Press any key to continue.
<
```

```
31. C programming.c × 32. C programming.c × 33. C programming.c × 34. C programming.c × 35. C programming.c × 36. C programming.c ×
           #include<stdio.h>
    2
        main(){
    3
               int num,i,sum=0;
    4
               printf("Enter a number: "); scanf("%d", &num);
    5
    6
               while (num>0) {
    7
                   i=num%10;
    8
                   num=num/10;
    9
                   sum=sum+i;
   10
               printf("The sum of digit of the enter number is: %d", sum);
   11
   12
               "D:\school\Year3\2. Algorithm & Programming (S1)\TP\32. C programming.exe"
   13
               Enter a number: 100
               The sum of digit of the enter number is: 1
               Process returned 0 (0x0) execution time : 3.468 s
               Press any key to continue.
```

```
131. C programming, c × 32. C programming, c × 33. C programming, c × 34. C programming, c × 35. C programming, c × 36. C programming, c × 36. C programming, c × 37. C programming, c × 38. C programming, c 
                                                       #include<stdio.h>
                          2
                                             main(){
                          3
                                                                       int num,i,product=1;
                                                                       printf("Enter a number: "); scanf("%d", &num);
                          4
                          5
                          6
                                             while (num>0) {
                          7
                                                                                          i=num%10;
                          8
                                                                                          num=num/10;
                          9
                                                                                          product=product*i;
                     10
                                                                       printf("The product of digit of the enter number is %d",product);
                      11
                      12
                                                                          ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\33. C programming.exe"
                      13
                                                                      Enter a number: 100
                                                                      The product of digit of the enter number is 0
                                                                      Process returned 0 (0x0) execution time : 2.419 s
                                                                       Press any key to continue.
   <
```

```
1 31. C programming.c × 32. C programming.c × 33. C programming.c × 34. C programming.c × 35. C programming.c × 36. C programming.c ×
             #include<stdio.h>
      1
          main(){
      3
                 int num,i,reverse=0;
                 printf("Enter a number: ");
      4
      5
                 scanf ("%d", &num);
      6
      7
                 while (num>0) {
      8
                     i=num%10;
      9
                     reverse=(reverse*10)+i;
     10
                     num=num/10;
     11
                 printf("The reverse of the enter number is: %d", reverse);
     12
     13
            }
     14
                 "D:\school\Year3\2. Algorithm & Programming (S1)\TP\34. C programming.exe"
                Enter a number: 123
                The reverse of the enter number is: 321
                Process returned 0 (0x0)
                                              execution time : 2.004 s
                Press any key to continue.
<
```

```
1 31. C programming.c 🗶 32. C programming.c 🗶 33. C programming.c 🗶 34. C programming.c 🗶 35. C programming.c 🗶 36. C programming.c 🗶
             #include<stdio.h>
          main(){
      2
      3
                 int num, i, reverse=0, original;
                 printf("Enter a number: ");
      4
      5
                 scanf("%d", &num);
      6
                 original=num;
      7
      8
          while (num>0) {
      9
                     i=num%10;
     10
                     reverse=(reverse*10)+i;
     11
                     num=num/10;
     12
     13
                 if(original==reverse){
     14
                     printf("The enter number is palindrome number.");
     15
     16
                 else{
     17
                     printf("The enter number isn't palindrome number.");
     18
                    "D:\school\Year3\2. Algorithm & Programming (S1)\TP\35. C programming.exe"
            }
     19
     20
                   Enter a number: 12321
                   The enter number is palindrome number.
                   Process returned 0 (0x0)
                                                execution time : 2.068 s
                   Press any key to continue.
 <
```

```
🛂 31. C programming.c 🗶 32. C programming.c 🗶 33. C programming.c 🗶 34. C programming.c 🗶 35. C programming.c 🗶 36. C programming.c 🗶
            #include<stdio.h>
          main(){
      2
                 int num,i,freq[10],j;
      3
                                                                         ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\3
      4
                 printf("Enter a number: "); scanf("%d",&num);
      5
                                                                        Enter a number: 100
      6
                 for(i=0;i<10;i=i+1){
                                                                        Frequency of 0 = 2
      7
                     freq[i]=0;
                                                                        Frequency of 1 = 1
      8
                                                                        Frequency of 2 = 0
      9
                 while (num>0) {
                                                                        Frequency of 3 = 0
                                                                        Frequency of
                                                                                      4 = 0
     10
                     i=num%10;
                     num=num/10;
                                                                        Frequency of
                                                                                      5 = 0
     11
                                                                        Frequency of
                                                                                      6 = 0
     12
                     freq[i]=freq[i]+1;
                                                                        Frequency of
                                                                                      7 = 0
     13
                                                                        Frequency of 8 = 0
     14
                 for(i=0; i<10; i=i+1){
                                                                        Frequency of 9 = 0
     15
                     printf("Frequency of %d = %d\n", i, freq[i]);
     16
                                                                        Process returned 0 (0x0)
                                                                                                      execution time
     17
            }
                                                                        Press any key to continue.
     18
```

```
🛂 37. C programming.c 🗶 38. C programming.c 🗶 39. C programming.c 🗶 40. C programming.c 🗶 41. C programming.c 🗶 42. C programming.c 🗶
           #include<stdio.h>
         □main(){
     2
               int num, j, i, rev=0;
     4
               printf("Enter a number: "); scanf("%d",&num);
     5
         卓
               while(num>0){
     6
                    i=num%10;
                    num=num/10;
                    rev=(rev*10)+i;
     8
                                                             "D:\school\Year3\2. Algorithm & Programming (S1)\TP\37. C programming.exe"
         中
    10
               while(rev>0){
                                                            Enter a number: 1007
                    j=rev%10;
    11
                                                            one zero zero seven
    12
                    rev=rev/10;
                                                            Process returned 0 (0x0)
                                                                                            execution time : 3.108 s
    13
                    switch(j){
                                                            Press any key to continue.
                        case 0: printf("zero "); break;
    14
                        case 1: printf("one "); break;
                        case 2: printf("two "); break;
    16
                        case 3: printf("three "); break;
    17
    18
                        case 4: printf("four "); break;
                        case 5: printf("five "); break;
    19
                        case 6: printf("six "); break;
    20
                        case 7: printf("seven "); break;
    21
    22
                        case 8: printf("eight "); break;
    23
                        case 9: printf("nine "); break;
    24
    25
               }
    26
<
```

```
1 37. C programming.c 🗶 38. C programming.c 🗶 39. C programming.c 🗶 44. C programming.c 🗶 44. C programming.c 🗶 45. C programming.c 🗶 44. C programming.c 🗶
                #include<stdio.h>
                     int num=0;
        4
                     char chr;
       5
                     while (num<=128) {
        6
                           chr=num;
                           printf("'%c' number %d, ",chr,num);
       8
      10
                          "D:\school\Year3\2. Algorithm & Programming (S1)\TP\38. C programming.exe"
               }
                               number 0, '@' number 1, '@' number 2, '♥' number 3, '♦' number 4, '♣' number 5, '♠' number 6, '' number 7, ' number
                                        number 9,
                            number 13,
                                             '∄' number 14, '⊙' number 15, '▶' number 16, '◄' number 17, '$' number 18, '‼' number 19, '¶' number 20,
                                            '=' number 22,
                                                                     '⊈' number 23,
                                                                                                                                           '→' number 26,
                            number 21,
                                                                                                  number 24,
                                                                                                                          number 25,
                                                                                                                                                                         number 27,
                                                                                                                                                                                                 number 28,
                                                                                                  number 32,
                                                                                                                          number 33,
                                                                                                                                                                         number
                                                   number 30,
                                                                          number
                                                                                                                                                  number 34,
                                                                                                                                                                                                 number
                                             '&' number 38,
                                                                          number
                                                                                                  number 40,
                                                                                                                          number 41,
                                                                                                                                                  number 42,
                                                                                                                                                                         number
                                                                                                                                                                                                 number 44.
                                                                                            '0' number 48,
                                                                                                                                           '2' number 50,
                                                   number 46,
                                                                          number 47,
                                                                                                                          number 49,
                                                                                                                                                                          number 51,
                                                                           number 55,
                                                   number 54,
                                                                                                  number 56,
                                                                                                                          number 57,
                                                                                                                                                  number 58,
                                             '>' number 62,
                            number 61,
                                                                                                                                           'R'
                                                                                                                                                                          number 67,
                                                                          number 63,
                                                                                                  number 64,
                                                                                                                          number 65,
                                                                                                                                                 number 66,
                                                                                                                                                                                                 number 68,
                                            'F' number 70,
                                                                                            'H'
                                                                                                                          number 73,
                                                                                                                                                  number 74,
                                                                                                                                                                         number 75,
                                                                                                                                                                                                 number 76,
                            number 69,
                                                                          number 71,
                                                                                                  number 72,
                                                                                                                                                                                           'T' number 84,
                            number 77,
                                            'N' number 78,
                                                                     '0'
                                                                                            'P' number 80,
                                                                                                                         number 81, 'R' number 82,
                                                                                                                                                                    'S' number 83,
                            number 77, N Number 78, 'O' number 79, 'P' number 80, 'Q' number 81, 'R' number 82, number 85, 'V' number 86, 'W' number 87, 'X' number 88, 'Y' number 89, 'Z' number 90 number 93, 'A' number 94, '_' number 95, 'N' number 96, 'a' number 97, 'b' number 98 number 101, 'f' number 102, 'g' number 103, 'h' number 104, 'i' number 105, 'j' numl 108, 'm' number 109, 'n' number 110, 'o' number 111, 'p' number 112, 'q' number 113, number 116, 'u' number 117, 'v' number 118, 'w' number 119, 'x' number 120, 'y' numl 123, '|' number 124, '}' number 125, '~' number 126, 'a' number 127, 'C' number 128, bess any key to continue.
                                                                          number 79,
                           number 85, 'V' number 94,
                                                                                                                                                                         number 91,
                                                                                                                                                 number 90,
                                                                                                                                                                                                 number 92.
                                                                                           X number 88, Y number 97, 'b' number 98, [ number 97, \ number 92, ]
'`' number 96, 'a' number 97, 'b' number 98, 'c' number 99, 'd' number 100, '
103, 'h' number 104, 'i' number 105, 'j' number 106, 'k' number 107, 'l' numbe
number 111, 'p' number 112, 'q' number 113, 'r' number 114, 's' number 115, '
118, 'w' number 119, 'x' number 120, 'y' number 121, 'z' number 122, '{' numbe
Logs & others
DoxyBI •
                         Press any key to continue.
 File
```

```
1 37. C programming.c × 38. C programming.c × 39. C programming.c × 40. C programming.c × 41. C programming.c × 42. C programming.c ×
            #include<stdio.h>
     2
          main(){
     3
                int i=1, num=1, pow, n;
     4
                printf("Enter a number: "); scanf("%d",&n);
     5
                printf("Enter a power of number: "); scanf("%d",&pow);
     6
     7
                while (i<=pow) {
     8
                    num=num*n;
     9
                    i++;
    10
                printf("The number %d power by %d equal to %d",n,pow,num);
    11
    12
    13
                 "D:\school\Year3\2. Algorithm & Programming (S1)\TP\39. C programming.exe"
                Enter a number: 100
                Enter a power of number: 4
                The number 100 power by 4 equal to 100000000
                Process returned 0 (0x0) execution time : 2.382 s
                Press any key to continue.
<
```

```
🛂 37. C programming.c 🗶 38. C programming.c 🗶 39. C programming.c 🗶 40. C programming.c 🗶 41. C programming.c 🗶 42. C programming.c
      1
             #include<stdio.h>
           main(){
      3
                 int n, i=1, num=1;
      4
                 printf("Enter a number: "); scanf("%d",&n);
      5
      6
                 while (i<=n) {
      7
                      num=num*i;
      8
                      i++;
      9
     10
                 printf("The number is: %d", num);
             }
     11
     12
                    "D:\school\Year3\2. Algorithm & Programming (S1)\TP\40. C programming.exe"
                   Enter a number: 10
                   The number is: 3628800
                   Process returned 0 (0x0)
                                                 execution time : 6.081 s
                   Press any key to continue.
 <
```

```
1 38. C programming.c × 39. C programming.c × 40. C programming.c × 41. C programming.c × 42. C programming.c × 43. C programming.c ×
            #include<stdio.h>
      2
          main(){
                                                                             "D:\school\Year3\2. Algorithm & Programming (S1)"
      3
                 int num, i=2, status, n;
                                                                            Enter a number: 15
                 printf("Enter a number: "); scanf("%d", &num);
      4
                                                                            Number 15 is a primary number.
      5
                 n=num:
                                                                            Process returned 0 (0x0)
                                                                                                         execution t
      6
                 while(i<num){
                                                                            Press any key to continue.
      7
                     status=1;
      8
                     num=num/i;
     9
                     if(num%i==0){
    10
                         status=-1;
    11
                         break;
    12
                     }
    13
                     i++;
    14
    15
                 if(status==1){
    16
                     printf("Number %d is a primary number.",n);
    17
    18
                 else{
    19
                     printf("Number %d is not a primary number.",n);
    20
    21
            }
    22
```

```
🛂 38. C programming.c 🗶 39. C programming.c 🗶 40. C programming.c 🗶 41. C programming.c 🗶 42. C programming.c 🗶 43. C programming.c 🗶
      1
             #include<stdio.h>
      2
          main(){
      3
                 int num,i,status,j;
                 printf("Enter a number: "); scanf("%d",&num);
      4
      5
      6
                 for (i=1; i<=num; i++) {
      7
                     status=1;
                                                  "D:\school\Year3\2. Algorithm & Programming (S1)\TP\42. C programming.exe"
      8
                     for(j=2;j<i;j=j+1){
                                                 Enter a number: 40
      9
                          if(i%j==0){
                                                 1 2 3 5 7 11 13 17 19 23 29 31 37
     10
                               status=-1;
                                                 Process returned 0 (0x0)
                                                                              execution time : 4.791 s
     11
                              break:
                                                 Press any key to continue.
     12
                          }
     13
                     }
     14
                     if(status==1){
     15
                          printf("%d ",i);
     16
     17
     18
                 3
     19
     20
             }
     21
```

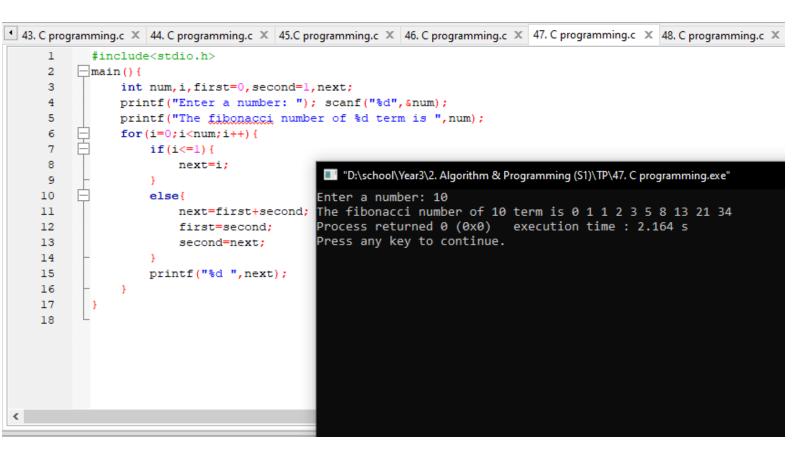
```
Start here X 51. C programming.c X 42. C programming.c X
     1
             #include<stdio.h>
     2
           main(){
     3
                 int num,i,status,j,sum=0;
     4
                 printf("Enter a number: "); scanf("%d",&num);
     5
                                               "D:\school\Year3\2. Algorithm & Programming (S1)\TP\51. C programming.exe"
     6
                 for(i=1;i<=num;i++){
     7
                      status=1;
                                               Enter a number: 100
     8
                      for(j=2;j<i;j=j+1){
                                              The sum of primary number is 1061
Process returned 0 (0x0) execut:
     9
                          if(i%j==0){
                                                                              execution time : 8.861 s
     10
                               status=-1:
                                              Press any key to continue.
     11
                               break:
    12
    13
                      1
                      if(status==1){
    14
    15
                          sum=sum+i:
    16
    17
    18
                 printf("The sum of primary number is %d", sum);
    19
     20
<
```

```
1 38. C programming.c × 39. C programming.c × 40. C programming.c × 41. C programming.c × 42. C programming.c × 43. C programming.c ×
     1
            #include<stdio.h>
     2
          main() {
     3
                int num, remainder, n, m, i=1, power, digit=0, result=0;
                printf("Enter a number: "); scanf("%d", &num);
     4
     5
     6
                n=num;
                                                    "D:\school\Year3\2. Algorithm & Programming (S1)\TP\43. C programming.exe"
     7
                m=num;
                                                   Enter a number: 153
     8
                while (i<=n) {
     9
                                                   The number is an armstrong number.
                    n=n/10;
                                                   Process returned 0 (0x0)
                                                                                   execution time : 4.082 s
    10
                    digit++;
                                                   Press any key to continue.
    11
    12
                while (i<=m) {
    13
                   remainder=m%10;
    14
                    m=m/10;
    15
                    power=pow(remainder, digit);
    16
                    result=result+power;
    17
    18
                if (num==result) {
    19
                    printf("The number is an armstrong number.");
    20
    21
                else{
    22
                    printf("The number is not an armstrong number.");
    23
    24
            }
    25
<
```

```
43. C programming.c × 44. C programming.c × 45.C programming.c × 46. C programming.c × 47. C programming.c × 48. C programming.c ×
            #include<stdio.h>
          main(){
     2
                int num, i, n, j=1, remainder, digit, m, power, result;
     3
     4
               printf("Enter a number: "); scanf("%d",&num);
               printf("The armstrong number is ");
     5
                for (i=1; i<=num; i=i+1) {
     6
         白
     7
                                           "D:\school\Year3\2. Algorithm & Programming (S1)\TP\44. C programming.exe"
     8
                                          Enter a number: 1000
     9
                    digit=0;
                                          The armstrong number is 1 2 3 4 5 6 7 8 9 153 370 371 407
    10
                    result=0;
                                          Process returned 0 (0x0) execution time : 3.320 s
    11
         白
                    while(j<=n){
                                          Press any key to continue.
    12
                       n=n/10;
    13
                        digit++;
    14
    15
                    while (j<=m) {
    16
                        remainder=m%10;
    17
                        m=m/10;
    18
                        power=pow(remainder, digit);
    19
                        result=result+power;
    20
                    if (i==result) {
    21
                        printf("%d ",i);
    22
    23
    24
```

```
43. C programming.c × 44. C programming.c × 45.C programming.c × 46. C programming.c × 47. C programming.c × 48. C programming.c ×
             #include<stdio.h>
      1
      2
          main(){
      3
                 int num,n,i=1,sum=0;
      4
                 printf("Enter a number: "); scanf("%d", &num);
      5
      6
          while (i<num) {
                                        "D:\school\Year3\2. Algorithm & Programming (S1)\TP\45.C programming.exe"
      7
                     n=num%i;
                                       Enter a number: 28
      8
                     if(n==0){
                                       The number is a perfect number.
      9
                          sum=sum+i;
                                                                     execution time : 3.034 s
                                       Process returned 0 (0x0)
     10
                                       Press any key to continue.
     11
                     i++;
     12
     13
                 if(sum==num){
     14
                     printf("The number is a perfect number.");
     15
     16
                else{
     17
                     printf("The number is not a perfect number.");
     18
            }
     19
     20
<
```

```
43. C programming.c 🗶 44. C programming.c 🗶 45.C programming.c 🗶 46. C programming.c 🗶 47. C programming.c 🗶 48. C programming.c 🗶
             #include<stdio.h>
          main(){
      2
      3
                 int num, n, i, j, sum;
      4
                 printf("Enter a number: "); scanf("%d", &num);
      5
                 printf("The perfect number is ");
      6
                 for(i=1;i<=num;i++) {
      7
                     sum=0;
                                              "D:\school\Year3\2. Algorithm & Programming (S1)\TP\46. C programming.exe"
      8
                     j=1;
                                             Enter a number: 1000
      9
                     while(j<i){
                                             The perfect number is 6 28 496
     10
                          n=i%j;
                                             Process returned 0 (0x0)
                                                                            execution time : 2.052 s
     11
                          if(n==0){
                                             Press any key to continue.
    12
                              sum=sum+j;
    13
                          1
    14
                          j++;
    15
    16
                     if(sum==i){
    17
                          printf("%d ",i);
     18
     19
                 }
    20
            }
     21
<
```



```
43. C programming.c 🗶 44. C programming.c 🗶 45.C programming.c 🗶 46. C programming.c 🗶 47. C programming.c 🗶 48. C programming.c 🗶
            #include <stdio.h>
          main(){
      3
                int num, binary val, decimal val = 0, base = 1, rem;
                printf("Enter a binary number: "); scanf("%d", &num);
      4
      5
      6
                binary_val=num;
      7
                while (num > 0) {
      8
                     rem = num % 10;
                     decimal_val = decimal_val + rem * base;
      9
                    num = num / 10;
     10
     11
                    base = base * 2;
     12
     13
                printf("The Binary number is = %d \n", binary val);
                printf("Its decimal equivalent is = %d \n", decimal val);
     14
     15
            1
                 "D:\school\Year3\2. Algorithm & Programming (S1)\TP\48. C programming.exe"
     16
                Enter a binary number: 1000
                The Binary number is = 1000
                Its decimal equivalent is = 8
                Process returned 0 (0x0)
                                             execution time : 3.495 s
                Press any key to continue.
<
```

```
Start here X 49. C programming.c X 50. C programming.c X
            #include <stdio.h>
     1
     2
          main() {
     3
                int n, i, k;
     4
                printf("Enter an integer in decimal number system: "); scanf("%d", &n);
     5
                printf("%d in binary number system is: ", n);
     6
     7
                for (i=30;i>=0;i--) {
     8
                     k=n>>i;
     9
                     if(k&1){
                         printf("1");
    10
    11
    12
                     else{
    13
                         printf("0");
    14
    15
                   "D:\school\Year3\2. Algorithm & Programming (S1)\TP\49. C programming.exe"
    16
            }
    17
                  Enter an integer in decimal number system: 1000
                  1000 in binary number system is: 00000000000000000000001111101000
                  Process returned 0 (0x0)
                                               execution time : 1.602 s
                  Press any key to continue.
```

```
Start here X 49. C programming.c X 50. C programming.c X
            #include <stdio.h>
     2

    main() {
     3
                long decimalnum, remainder, quotient;
     4
                int octalNumber[100], i = 1, j;
     5
                printf("Enter the decimal number: "); scanf("%ld", &decimalnum);
     6
     7
                quotient = decimalnum;
     8
                while (quotient != 0) {
     9
                    octalNumber[i++] = quotient % 8;
    10
                    quotient = quotient / 8;
    11
    12
               printf("Equivalent octal value of decimal no %d: ", decimalnum);
          白
    13
                for (j = i - 1; j > 0; j--){
                    printf("%d", octalNumber[j]);
    14
    15
                   ■ "D:\school\Year3\2. Algorithm & Programming (S1)\TP\50. C programming.exe"
          }
    16
                   Enter the decimal number: 1000
Equivalent octal value of decimal no 1000: 1750
    17
                   Process returned 0 (0x0) execution time : 3.574 s
                   Press any key to continue.
<
```