

ข้อที่ 1

```
1  #include <stdio.h>
2
3  int main(){
4      int *a;
5      int var = 10;
6      a = &var;
7
8      printf("*a = %d\n", *a);
9
10     var = 20;
11     printf("*a = %d\n", *a);
12
13     *a = 30;
14     printf("*a = %d\n", *a);
15     printf("var = %d\n", var);
16
17     return 0;
18 }
```

```
*a = 10
*a = 20
*a = 30
var = 30
```

ข้อที่ 2

```
#include<stdio.h>
```

```
int main(){
```

```
    int var[100][4] ;  
    int (*a)[4] = var ;
```

```
    for ( int i = 0 ; i < 10 ; i++){  
        for ( int j = 0 ; j < 4 ; j++){  
            var[i][j] = i*10 + j ;  
            printf( "%d\t", var[i][j] ) ;  
        }  
        printf( "\n" ) ;
```

```
    }  
    a[1][4] = 99 ;  
    printf( "-----\n" ) ;  
    for ( int i = 0 ; i < 10 ; i++){  
        for ( int j = 0 ; j < 4 ; j++){  
            printf( "%d\t", var[i][j] ) ;  
        }  
        printf( "\n" ) ;
```

```
    }  
    return 0 ;
```

0	1	2	3
10	11	12	13
20	21	22	23
30	31	32	33
40	41	42	43
50	51	52	53
60	61	62	63
70	71	72	73
80	81	82	83
90	91	92	93

0	1	2	3
10	11	99	13
20	21	22	23
30	31	32	33
40	41	42	43
50	51	52	53
60	61	62	63
70	71	72	73
80	81	82	83
90	91	92	93

ข้อที่ 3

```
#include<stdio.h>

int add_data( int a) {
    int n ;
    int sum = 0 ;
    printf( "Number of input sum : " ) ;
    scanf( "%d", &n ) ;
    for ( int i = 0 ; i < n ; i++ ) {
        printf ( "Input Number'%d : ", i+1 ) ;
        scanf( "%d", &a ) ;
        sum = sum + a ;
    }
    return sum ;
}

int operat( int a, int (*function) ( int ) ) {
    return (*function) ( a ) ;
}

int main(){
    int a ;
    printf ( "sum = %d ", operat( a, add_data) ) ;
    return 0 ;
}
```

```
Number of input sum :8
Input Number'1 : 1
Input Number'2 : 2
Input Number'3 : 3
Input Number'4 : 4
Input Number'5 : 5
Input Number'6 : 6
Input Number'7 : 7
Input Number'8 : 8
sum = 36
```

```

#include<stdio.h>

int main() {
    int row, col ;
    printf( "Input your row and column: " ) ;
    scanf("%d %d", &row, &col) ;

    int *a ;
    a = new int( row*col ) ;

    for (int i = 0 ; i < row ; i++) {
        for (int j = 0 ; j < col ; j++) {
            printf( "a[%d][%d] = ", i, j ) ;
            scanf( "%d", &a[ i * col + j ] ) ;
        }
    }
    for ( int i = 0 ; i < row*col ; i++){
        printf("%d\t", a[i] ) ;
        if ( ( i + 1 )%col == 0 ){
            printf( "\n" ) ;
        }
    }

    return 0 ;
}

```

```

Input your row and column: 2 5
a[0][0] = 1
a[0][1] = 2
a[0][2] = 3
a[0][3] = 4
a[0][4] = 5
a[1][0] = 6
a[1][1] = 7
a[1][2] = 8
a[1][3] = 9
a[1][4] = 10
1      2      3      4      5
6      7      8      9      10

```

ข้อที่ 5

```
#include<stdio.h>
void sumit(int &a, int b){
    for ( int i = 1 ; i <= b ; i++ ){
        a = a*i ;
    }
}
int main() {
    int a = 10 ;
    printf( "first value of this parameter : %d", a ) ;
    sumit( a, 5) ;
    printf( "\nAfter function : %d", a ) ;
    return 0 ;
}
```

```
first value of this parameter : 10
After function : 1200
```

ข้อที่ 6

```
#include<stdio.h>
int sumit(int a, int b){
    for ( int i = 1 ; i <= b ; i++ ){
        a = a*i ;
    }
    return a ;
}
int main() {
    int a = 10 ;
    printf( "first value of this parameter : %d", a ) ;
    printf( "\nTotal from function : %d", sumit( a, 5) ) ;
    return 0 ;
}
```

```
first value of this parameter : 10
Total from function : 1200
```