## Lesson 1 C mini-exercise

1. Write a C program to prompt the user to input her/his age and print it on the screen, as shown below.

```
Enter your age:22
You are 22 years old.
請按任意鍵繼續 - - - =
```

2. Write a C program that will print the following pattern:

\*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*

```
******
****
***
**
*
*
i請按任意,鍵繼續 - - -
```

- 3. Modify question 2 and create a function to perform the same task
- 4. Initialize 5 integers inside an array and calculate the average.
- 5. Base on the following code, what is the

```
#include <stdio.h>
#include<stdlib.h>
void vset(int,int);
void rset(int*,int);
int main(void)
{
 int x=0,*p;
 p = &x;
 vset(x,1);
 printf("x = %d ",x); \leftarrow--- what is the value of x?
 rset(p,1);
printf("x = %d\n",x); \leftarrow--- what is the value of x?
system("pause");
}
void vset(int x,int y)
x = y;
void rset(int *p,int y)
 *p = y;
Create a swap function which allows the value of a and b swap.
#include <stdio.h>
#include<stdlib.h>
void swap(int *,int *);
int main(void)
 int a=4,b=3;
 swap(&a,&b);
 printf("a = %d b= %d\n",a,b);
```

```
system("pause");
}

void swap(....) ←---how to write this function?
{
.......
}
```

## Output

```
#include <stdio.h>
#include<stdlib.h>
void swap(int *,int *);
int main(void)

{
   int a=4,b=3;
   swap(&a,&b);
   printf("a = %d b= %d\n",a,b);
   system("pause");
}

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a = 3 b= 4
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```