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```c
#include <stdio.h>

void main() {

    int x, y;

    while (1)
    {
        printf ("Please enter first number : ");
        scanf (" %d",&x);

        printf ("Please enter second number : ");
        scanf (" %d",&y);

        printf ("The result is : %d \n\n",(x+y));

    }

}
```

Windows PowerShell

```
PS C:\Users\pc\Documents\C (notepad)> gcc l31.c -o l31.exe
PS C:\Users\pc\Documents\C (notepad)> ./l31.exe
Please enter first number : 10
Please enter second number : 20
The result is : 30

Please enter first number :
```

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```c
#include <stdio.h>

void main() {
    int id, pass, flag =0;
    printf ("Please Enter Your Id : ");
    scanf (" %d",&id);

    switch (id){
        case 1234 :
        printf ("Please Enter Your Password :");
        for (int i=0; i<3; i++){
            scanf(" %d",&pass);
            if (pass ==7788){
                printf ("Welcome Ahmed");
                break;
            }
            else{
                flag++;
                if(i<2){
                printf ("Try again : ");
                }
            }
            if (flag ==3){
                printf ("Incorrect Password for 3 times, No more tries");
            }
        }

        break;

        case 5678 :
        printf ("Please Enter Your Password :");
        for (int i=0; i<3; i++){
            scanf(" %d",&pass);
            if (pass ==5566){
                printf ("Welcome Amr");
                break;
            }
            else{
                flag++;
                if(i<2){
                printf ("Try again : ");
                }
```

Windows PowerShell

```
PS C:\Users\pc\Documents\C (notepad)> gcc l32.c -o l32.exe
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 7471
You are not registered
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 1234
Please Enter Your Password :4512
Try again : 7788
Welcome Ahmed
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 1234
Please Enter Your Password :5050
Try again : 6060
Try again : 7070
Incorrect Password for 3 times, No more tries
PS C:\Users\pc\Documents\C (notepad)>
```

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l31.c   l32.c

```c
            }
        else{
            flag++;
            if(i<2){
            printf ("Try again : ");
            }


            }
        if (flag ==3){
            printf ("Incorrect Password for 3 times, No more tries");
        }
        }
    }
    break;

    case 9870 :
    printf ("Please Enter Your Password :");
    for (int i=0; i<3; i++){
        scanf(" %d",&pass);
        if (pass ==1122){
            printf ("Welcome Wael");
            break;
        }
        else{
            flag++;
            if(i<2){
            printf ("Try again : ");
            }


        }
        if (flag ==3){
            printf ("Incorrect Password for 3 times, No more tries");
        }
    }

    break;

    default :
    printf ("You are not registered");
    break;


    }
```

Windows PowerShell

```
PS C:\Users\pc\Documents\C (notepad)> gcc l32.c -o l32.exe
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 7471
You are not registered
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 1234
Please Enter Your Password :4512
Try again : 7788
Welcome Ahmed
PS C:\Users\pc\Documents\C (notepad)> ./l32.exe
Please Enter Your Id : 1234
Please Enter Your Password :5050
Try again : 6060
Try again : 7070
Incorrect Password for 3 times, No more tries
PS C:\Users\pc\Documents\C (notepad)>
```

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131.c ☒   132.c ☒

```c
#include <stdio.h>

void main() {

    int x;
    printf ("Please Enter the height of the pyramid : ");
    scanf (" %d",&x);

    /* ---*      3 0
        --***     2 1
        -*****    1 2
        *******   0 3
        no of stars =2*no of row +1

    */

     for (int i=0; i<x; i++){

         for (int j=0; j<x-i-1; j++){
             printf (" ");
         }
         for (int k=0; k<2*i+1; k++){
             printf ("*");
         }
         printf ("\n");
     }
}
```

```
Windows PowerShell

PS C:\Users\pc\Documents\C (notepad)>  gcc 131.c -o 131.exe
PS C:\Users\pc\Documents\C (notepad)> ./131.exe
Please Enter the height of the pyramid : 8
         *
        ***
       *****
      *******
     *********
    ***********
   *************
  ***************
PS C:\Users\pc\Documents\C (notepad)>
```