

1

The screenshot displays the Dev-C++ IDE interface. The main window shows a C program in 'Untitled1.c' that calculates and prints even squares up to a user-defined number 'n'. The code is as follows:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i=0,n;
6     printf("Please enter a number n: \n ");
7     scanf("%d",&n);
8     printf("all even squares between 1 and n are:\n");
9     while (i <= n)
10    {
11        i++;
12        if (i%2 !=0)
13        {
14            continue;
15        }
16        printf("%d\n",i*i);
17    }
18 }
19 return 0;
20
```

The 'Compiler' window at the bottom shows successful compilation results with no errors or warnings. The 'Output' window on the right shows the program's execution, where the user entered '12', and the program printed the even squares: 4, 16, 36, 64, 100, and 144. The process then exited after 6.279 seconds.

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Administrator\Desktop\Untitled1.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 1.00s

Process exited after 6.279 seconds with return value 0  
请按任意键继续. . .

2

The image shows a C++ IDE with a source code editor and a console window. The source code is as follows:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     float ina = 100, inb = 100;
6     int i = 1;
7     while (inb <= ina)
8     {
9         ina += 100*(.1);
10        inb += inb*(.05);
11        i++;
12    }
13    printf("It takes %i years for the value of Deirdre's investment to exceed the value of Daphne's investment.\n", i);
14    printf("The value of Deirdre's investment is $%.2f, the value of Daphne's investment is $%.2f.", inb, ina);
15    return 0;
16 }
```

The console window displays the output of the program:

```
It takes 28 years for the value of Deirdre's investment to exceed the value of Daphne's investment.
The value of Deirdre's investment is $373.345520, the value of Daphne's investment is $370.000000.

Process exited after 0.00893 seconds with return value 0
请按任意键继续. . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing line 16, column 2, and the file path C:\Users\Administrator\Desktop\Untitled2.exe.

3

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int fn = 5, n = 1, rf;
6     while (fn <= 150)
7     {
8         rf = fn - n;
9         fn = rf * 2;
10        if (fn > 150)
11        {
12            break;
13        }
14
15        printf("the number of friends in week %i is %i.\n", n, fn);
16        n++;
17    }
18    return 0;
19 }
20
21
22 }
```

the number of friends in week 1 is 8.  
the number of friends in week 2 is 12.  
the number of friends in week 3 is 18.  
the number of friends in week 4 is 28.  
the number of friends in week 5 is 46.  
the number of friends in week 6 is 80.  
the number of friends in week 7 is 146.

Process exited after 0.007341 seconds with return value 0  
请按任意键继续. . .

Compilation results...  
- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\Administrator\...\Untitled3.exe  
- Output Size: 127,931,640,625 KiB  
- Compilation Time: 0.25s

4

