1.
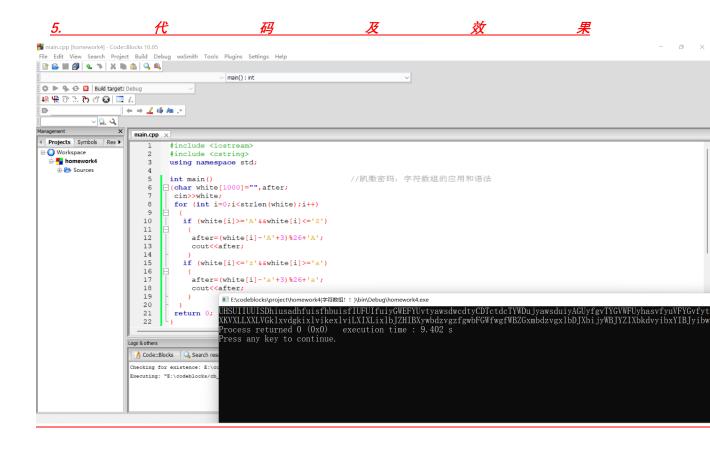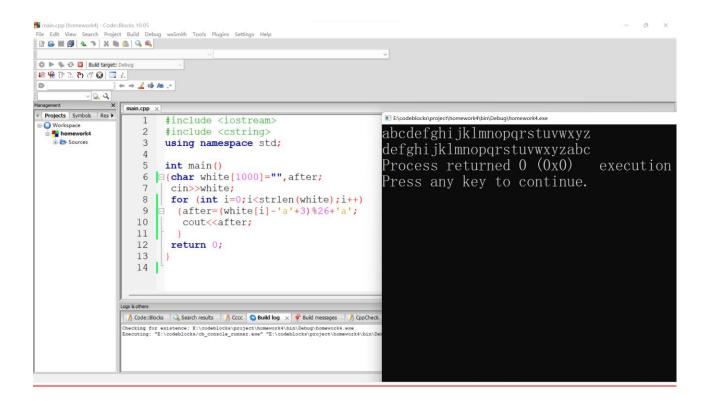A. for (i='A';i>='A'&&i<='Z';i++)
       cout<<i<<endl;
B. for (i=0;i<=100;i++)
   if (i%3==0)
       cout<<i<<endl;
C. #include <iostream>

using namespace std;

int main()
 {int i=2,x=0,j,b=0;
  cin>>x;
  for (;i<x;i++)
  { b=0;
    j=2;
    if (i==2) b=1;
    for (;j<i;j++)
    {
       if (i%j==0) break;
       else b=1;
    }
     if (b==1) cout<<i<<endl;
 }
    return 0;
}

   2.
   Count=1/2* (n-1) *n

   3.
   20

4. 代 码 以 及 效 果

```cpp
#include <iostream>

using namespace std;

int main()
{
  int i,j;
  for (i=1;i<=9;i++)
  {
    for (j=1;j<=i;j++)
    {
      cout<<i<<"x"<<j<<"="<<i*j<<"   ";
    }
    cout<<"\n"<<endl;
  }
  return 0;
}
```

```
E:\codeblocks\工程\homework4\bin\Debug\homework4.exe

1x1=1

2x1=2  2x2=4

3x1=3  3x2=6  3x3=9

4x1=4  4x2=8  4x3=12  4x4=16

5x1=5  5x2=10  5x3=15  5x4=20  5x5=25

6x1=6  6x2=12  6x3=18  6x4=24  6x5=30  6x6=36

7x1=7  7x2=14  7x3=21  7x4=28  7x5=35  7x6=42  7x7=49

8x1=8  8x2=16  8x3=24  8x4=32  8x5=40  8x6=48  8x7=56  8x8=64

9x1=9  9x2=18  9x3=27  9x4=36  9x5=45  9x6=54  9x7=63  9x8=72  9x9=81


Process returned 0 (0x0)    execution time : 1.518 s
Press any key to continue.
```

5. 代 码 及 效 果

```
main.cpp [homework4] - Code::Blocks 10.05
File  Edit  View  Search  Project  Build  Debug  wxSmith  Tools  Plugins  Settings  Help

main() : int

Build target: Debug

Management                          X
Projects  Symbols  Res
Workspace
  homework4
    Sources
```

```cpp
1   #include <iostream>
2   #include <cstring>
3   using namespace std;
4
5   int main()                           //凯撒密码，字符数组的应用和语法
6  {char white[1000]="",after;
7    cin>>white;
8    for (int i=0;i<strlen(white);i++)
9    {
10     if (white[i]>='A'&&white[i]<='Z')
11     {
12       after=(white[i]-'A'+3)%26+'A';
13       cout<<after;
14     }
15     if (white[i]<='z'&&white[i]>='a')
16     {
17       after=(white[i]-'a'+3)%26+'a';
18       cout<<after;
19     }
20   }
21   return 0;
22  }
```

```
Logs & others
Code::Blocks  Search res
Checking for existence: E:\co
Executing: "E:\codeblocks\cb_
```

```
E:\codeblocks\project\homework4(字符数组！！)\bin\Debug\homework4.exe

UHSUIIUUISDhiusadhfuisfhbuisfIUFUIfuiyGWEFYUvtyawsdwcdtyCDTctdcTYWDujyawsduiyAGUyfgvTYGVWFUyhasvfyuVFYGvfyt
XKVXLLXXLVGklxvdgkixlvikexlviLXIXLixlbJZHIBXywbdzvgzfgwbFGWfwgfWBZGxmbdzvgx1bDJXbijyWBJYZIXbkdvyibxYIBJyibw
Process returned 0 (0x0)    execution time : 9.402 s
Press any key to continue.
```

```cpp
#include <iostream>
#include <cstring>
using namespace std;

int main()
{char white[1000]="",after;
 cin>>white;
 for (int i=0;i<strlen(white);i++)
 {after=(white[i]-'a'+3)%26+'a';
  cout<<after;
 }
 return 0;
}
```

6.　　　　　代　　　　　码　　　　　及　　　　　效　　　　　果

File   Edit   View   Search   Project   Build   Debug   wxSmith   Tools   Plugins   Settings   Help

Build target: Debug

main() : int

Management

Projects   Symbols   Res ►

- Workspace
  - homework4
    - Sources

main.cpp ×

```cpp
13    //}
14
15
16
17    int main()
18    {char origin[1000]="";
19      cin>>origin;
20      for (int i=0;i<strlen(origin);i++)
21      {
22        if (origin[i]<='Z'&&origin[i]>='A')
23          cout<<char(origin[i]+32);
24      }
25      return 0;
26    }
27
```

E:\codeblocks\project\homework4\bin\Debug\homework4.exe

```
DSsdnuiDSUIHUIdsifhjuisISJDH
dsdsuihuiisjdh
Process returned 0 (0x0)    execution
Press any key to continue.
```

Logs & others

Code::Blocks   Search results   Cccc   Build log ×   Build messages   CppCheck   Cpp

Checking for existence: E:\codeblocks\project\homework4\bin\Debug\homework4.exe
Executing: "E:\codeblocks\cb_console_runner.exe" "E:\codeblocks\project\homework4\bin\Debug\home