

```

1 //=====
2 // Name      : H34086115_hw5-1.cpp
3 // Author    :
4 // Version   :
5 // Copyright : Your copyright notice
6 // Description : Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12 int main() {
13     int a, i = 1;
14     double pi = 0, num, total ;
15     for ( a = 1; a <= 1000; a ++ ){
16         total = 2*a-1;
17         num = 4/total;
18         num = num*i;
19         i = i*(-1);
20         pi += num;
21         cout << "term: " << a << " " << "\t" << "approximate value of pi: " << pi << endl;
22     }
23 }
24

```

Console Registers Problems Executables Debugger Console Memory

<terminated> (exit value: 0) H34086115_hw5-1.exe [C/C++ Application] C:\Users\USER\eclipse-workspace\H34086115_hw5-1\D

```

term: 975 approximate value of pi: 3.14202
term: 976 approximate value of pi: 3.14057
term: 977 approximate value of pi: 3.14262
term: 978 approximate value of pi: 3.14057
term: 979 approximate value of pi: 3.14261
term: 980 approximate value of pi: 3.14057
term: 981 approximate value of pi: 3.14261
term: 982 approximate value of pi: 3.14057
term: 983 approximate value of pi: 3.14261
term: 984 approximate value of pi: 3.14058
term: 985 approximate value of pi: 3.14261
term: 986 approximate value of pi: 3.14058
term: 987 approximate value of pi: 3.14261
term: 988 approximate value of pi: 3.14058
term: 989 approximate value of pi: 3.1426
term: 990 approximate value of pi: 3.14058
term: 991 approximate value of pi: 3.1426
term: 992 approximate value of pi: 3.14058
term: 993 approximate value of pi: 3.1426
term: 994 approximate value of pi: 3.14059
term: 995 approximate value of pi: 3.1426
term: 996 approximate value of pi: 3.14059
term: 997 approximate value of pi: 3.1426
term: 998 approximate value of pi: 3.14059
term: 999 approximate value of pi: 3.14259
term: 1000 approximate value of pi: 3.14059

```