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```

1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      double hours = 35.45;
7      double rate = 15.00;
8      double tolerance = 0.01000;
9      cout << "hours = " << hours << ", rate = " << rate
10     << ", pay = " << hours * rate
11     << ", tolerance = " << tolerance << endl << endl;
12
13     cout << scientific;
14     cout << "Scientific Notation:  " << endl;
15     cout << "hours: " << hours << ", rate = " << rate
16     << ", pay = " << hours * rate
17     << ", tolerance = " << tolerance << endl << endl;
18
19     cout << fixed;
20     cout << "hours = " << hours << ", rate = " << rate
21     << ", pay = " << hours * rate
22     << ", tolerance = " << tolerance << endl << endl;
23     return 0;
24 }

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Code

```

cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/" && g++ 1.cpp -o 1 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"1
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/" && g++ 1.cpp -o 1 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"1
hours = 35.45, rate = 15, pay = 531.75, tolerance = 0.01

```

```

Scientific Notation:
hours: 3.545000e+01, rate = 1.500000e+01, pay = 5.317500e+02, tolerance = 1.000000e-02

hours = 35.450000, rate = 15.000000, pay = 531.750000, tolerance = 0.010000

```

```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$

```

```

2.cpp > main()
1  #include <iostream>
2  #include <iomanip>
3  using namespace std;
4  const double PI = 3.145445454541;
5  int main()
6  {
7      double radius = 12.67;
8      double height = 12.00;
9      cout << fixed << showpoint;
10     cout << setprecision(2);
11     cout << "Radius = " << radius << endl;
12     cout << "Height = " << height << endl;
13     cout << "Volume = " << PI * radius * radius * height << endl;
14
15     cout << setprecision(3);
16     cout << "Radius = " << radius << endl;
17     cout << "Height = " << height << endl;
18     cout << "Volume = " << PI * radius * radius * height << endl;
19
20     cout << setprecision(4);
21     cout << "Radius = " << radius << endl;
22     cout << "Height = " << height << endl;
23     cout << "Volume = " << PI * radius * radius * height << endl;
24
25     cout << setprecision(5);
26     cout << "Radius = " << radius << endl;
27     cout << "Height = " << height << endl;
28     cout << "Volume = " << PI * radius * radius * height << endl;
29
30     return 0;
31 }

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Code

```
& g++ 2.cpp -o 2 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"2
```

```
Radius = 12.67
```

```
Height = 12.00
```

```
Volume = 6059.22
```

```
Radius = 12.670
```

```
Height = 12.000
```

```
Volume = 6059.219
```

```
Radius = 12.6700
```

```
Height = 12.0000
```

```
Volume = 6059.2188
```

```
Radius = 12.67000
```

```
Height = 12.00000
```

```
Volume = 6059.21879
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$
```

3.cpp > main()

```
1  #include <iostream>
2  #include <iomanip>
3
4  using namespace std;
5
6  int main()
7  {
8      int x = 19;
9      int a = 345;
10     double y = 76.384;
11     cout << fixed << showpoint;
12     cout << "12345678901234567890" << endl;
13     cout << setw(5) << x << endl;
14     cout << setw(5) << a << setw(5) << "Hi"
15         << setw(5) << x << endl << endl;
16     cout << setprecision(2);
17     cout << setw(6) << a << setw(6) << y
18         << setw(6) << x << endl;
19
20     cout << setw(6) << x << setw(6) << a
21         << setw(6) << y << endl << endl;
22     cout << setw(6) << x << setw(6) << a
23         << setw(6) << y << endl << endl;
24
25     cout << setw(5) << a << x << endl;
26     cout << setw(2) << a << setw(4) << x << endl;
27     return 0;
28
29
30
```

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

1: Code



```
namiirr@hoonneta:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"
& g++ 3.cpp -o 3 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"3
```

```
12345678901234567890
```

```
19
```

```
345  Hi  19
```

```
345 76.38  19
```

```
19  345 76.38
```

```
19  345 76.38
```

```
34519
```

```
345 19
```

```
namiirr@hoonneta:~/SEMESTERno2/oop_lab/lab_07$
```

```

4.cpp > main()
1  #include <iostream>
2  #include <iomanip>
3
4  using namespace std;
5
6  int main()
7  {
8      double x = 19.454;
9      int a = 345;
10     double y = 76.384;
11     cout << fixed << showpoint;
12     cout << "12345678901234567890" << endl;
13     cout << setw(5) << x << endl;
14     cout << setw(5) << a << setw(5) << "Hy"
15         << setw(5) << x << endl << endl;
16     cout << setprecision(2);
17     cout << setw(6) << a << setw(6) << y
18         << setw(6) << x << endl;
19
20     cout << setw(6) << x << setw(6) << a
21         << setw(6) << y << endl << endl;
22     cout << setw(6) << x << setw(6) << a
23         << setw(6) << y << endl << endl;
24
25     cout << setw(5) << a << x << endl;
26     cout << setw(2) << a << setw(4) << x << endl;
27     return 0;
28
29 }

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Code

```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"
& g++ 4.cpp -o 4 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"4
12345678901234567890
19.454000
 345   Hy19.454000

    345 76.38 19.45
19.45   345 76.38

19.45   345 76.38

    34519.45
34519.45
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$

```

```

5.cpp > main()
1  #include <iostream>
2  #include <iomanip>
3
4  using namespace std;
5
6  int main()
7  {
8      int x = 15;
9      int y = 7634;
10     cout << "12345678901234567890" << endl;
11     cout << setw(5) << x << setw(7) << y
12     << setw(8) << "WARM" << endl;
13
14     cout << setfill('*');
15     cout << setw(5) << x << setw(7) << y
16     | << y << setw(8) << "Warm" << endl;
17
18     cout << setw(5) << setfill('@') << x
19     << setw(7) << setfill('#') << y
20     << setw(8) << setfill('^') << "Warm" << endl;
21
22     cout << setfill(' ');
23     cout << setw(5) << x << setw(7) << y
24     | << setw(8) << "Warm" << endl;
25     return 0;
26 }

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: Code

```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"
& g++ 5.cpp -o 5 && "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"5
12345678901234567890
_ 15 7634 WARM
***15***76347634****Warm
@@@15###7634^^^^Warm
_ 15 7634 Warm
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$

```

6.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int farhenheit = 0;
7      int celsius = 0;
8      cout << "Enter Farhenheit Temperature: ";
9      cin >> farhenheit;
10     cout << endl;
11     celsius = 5 / 9 * (farhenheit - 32);
12     cout << "The Temperature in celcius is = " << celsius << endl;
13     return 0;
14 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1

```
naniirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/naniirr/SEMESTERno2/oop_lab/lab_07/"
TERno2/oop_lab/lab_07/"6
Enter Farhenheit Temperature: 45

The Temperature in celcius is = 0
naniirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$
```

7.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int farhenheit = 0;
7      int celsius = 0;
8      cout << "Enter the Farhenheit: ";
9      cin >> farhenheit;
10     cout << endl;
11     cout << "5/9" << " : " << 5/9 << " f - 32" << farhenheit - 32 << endl;
12     celsius = 5 / 9 * (farhenheit - 32);
13     cout << "The Temperature in Celsius: " << celsius << endl;
14     return 0;
15 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Code

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/" && g++ 7.cpp
TERno2/oop_lab/lab_07/"7
Enter the Farhenheit: 45

5/9: 0 f - 3213
The Temperature in Celsius: 0
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$
```



8.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int farhenheit = 0;
7      int celsius = 0;
8      cout << "Enter the Farhenheit: ";
9      cin >> farhenheit;
10     cout << endl;
11     cout << "5/9" << 5/9 << "f - 32" << farhenheit - 32 << endl;
12     celsius = 5.0 / 9 * (farhenheit - 32);
13     cout << "The Temperature in Celsius:    " << celsius << endl;
14     return 0;
15 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"
TERno2/oop lab/lab 07/"8
Enter the Farhenheit: 45

5/90f - 3213
The Temperature in Celsius:    7
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$
```

9.cpp > main()

```
1  #include <iostream>
2  #include <fstream>
3
4  using namespace std;
5
6  int main()
7  {
8      fstream my_file;
9      my_file.open("Hello_World.txt", ios::out);
10     if (!my_file)
11     {
12         cout << "File Not Created" << endl;
13     }
14     else{
15         cout << "File Created Successfully" << endl;
16         my_file.close();
17     }
18     return 0;
19 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"9
File Created Successfully
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$
```

```

10.cpp > main()
1  #include <iostream>
2  #include <fstream>
3
4  using namespace std;
5
6  int main()
7  {
8      fstream my_file;
9      my_file.open("Hello_World.txt", ios::in);
10     if (!my_file)
11     {
12         cout << "No Such File" << endl;
13     }
14
15     else{
16         char ch;
17         while (1)
18         {
19             char ch;
20             while(1)
21             {
22                 my_file >> ch;
23                 if (my_file.eof())
24                 {
25                     break;
26                 }
27                 cout << ch;
28             }
29         }
30     }
31     my_file.close();
32     return 0;
33 }

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_07/"
Hello++

```

FAST NATIONAL UNIVERSITY

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*Thank  
you!*