

CS205 LAB FINAL

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https://github.com/bforbilal2003/CS205_lab_final

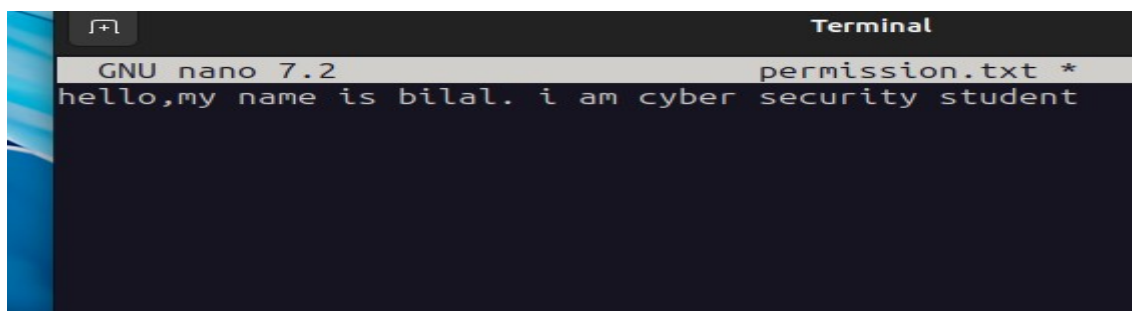
TASK 1:

(A)

CREATE FILE PERMISSION.TXT

change permission of file created by yourself in such a way that owner and other can write only and group can read only file and before all other permission reset for all user except owner . Verify the permission before and after resetting

```
pc46@pc46:~$ cd lab_final205
bash: cd: lab_final205: No such file or directory
pc46@pc46:~$ mkdir lab_final205
pc46@pc46:~$ cd lab_final205
pc46@pc46:~/lab_final205$ nano permission.txt
pc46@pc46:~/lab_final205$
```



```
pc46@pc46:~/lab_final205$ chmod 242 permission.txt
pc46@pc46:~/lab_final205$ ls -la
total 20
drwxrwxr-x  2 pc46 pc46  4096 May 14 09:32 .
drwxr-x--- 51 pc46 pc46 12288 May 14 09:27 ..
--w-r---w-  1 pc46 pc46    52 May 14 09:32 permission.txt
pc46@pc46:~/lab_final205$
```

```
pc46@pc46:~/lab_final205$ chmod 200 permission.txt
pc46@pc46:~/lab_final205$ ls -la
total 28
```

```
drwxrwxr-x 3 pc46 pc46 4096 May 14 18:00 cs205E_final205
-rw-r----- 1 pc46 pc46  52 May 14 09:32 permission.txt
-rw-r--r-- 1 pc46 pc46 114 May 14 09:46 wordlist.txt
```

(II)

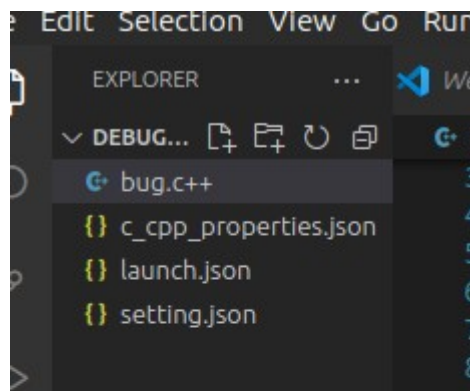
CREATE FILE WORDLIST

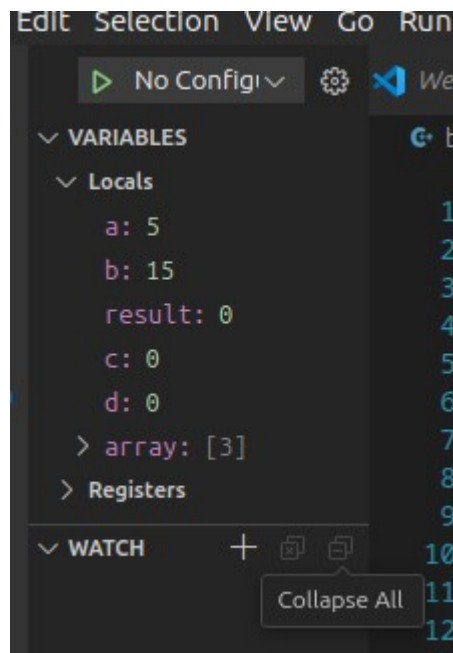
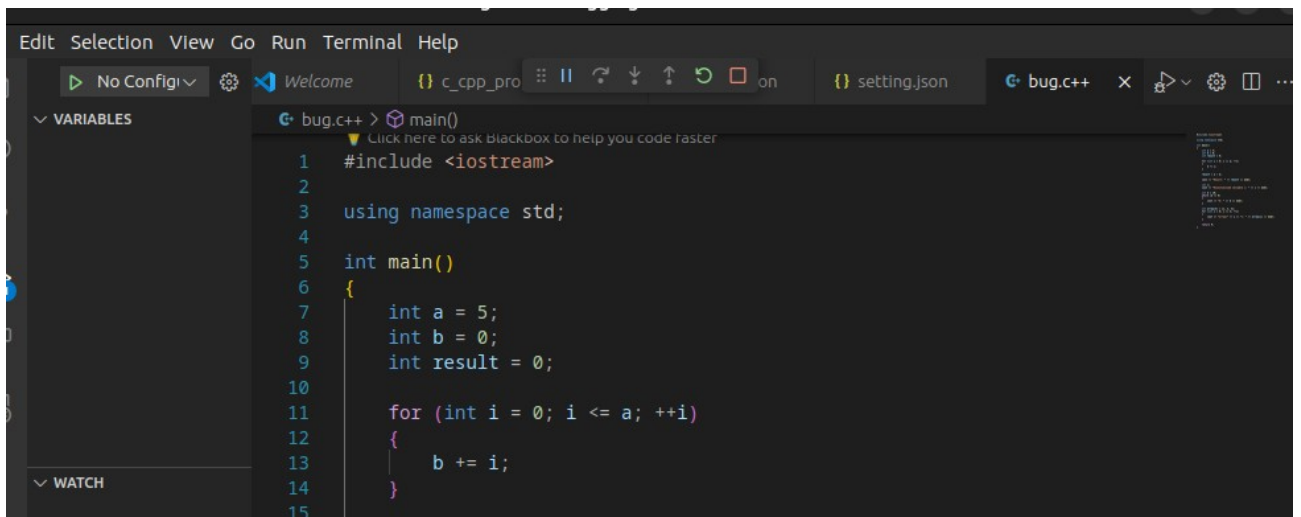
```
pc46@pc46:~/lab_final205$ nano wordlist.txt
pc46@pc46:~/lab_final205$
```

```
pc46@pc46:~/lab_final205$ grep [a-g]*[w-z] wordlist.txt
hello, my name is bilal. i am from lahore. i am part of media club giki
aascadmw
aadz
pc46@pc46:~/lab_final205$
```

(B)

DEBUGGING





```

6   {
7       int a = 5;
8       int b = 0;
9       int result = 0;
10
11      for (int i = 0; i <= a; ++i)
12      {
13          b += i;
14      }
15
16      result = a / b;
17
18      cout << "Result: " << result << endl;
19
20      int c;
21      cout << "Uninitialized variable c: " << c << endl;
22
23      int d = 10;
24      while (d >= 0)
25      {
26          cout << "d: " << d << endl;
27      }
28
29      int array[3] = {1, 2, 3};
30      for (int i = 0; i <= 3; ++i)
31      {
32          cout << "array[" << i << "]: " << array[i] << endl;
33      }
34
35      return 0;
36  }

```

in this problem the code we are running after applying the breakpoints on it it stuck at int d.. and the loop never end it goes on running.

```

29      int array[3] = {1, 2, 3};
30      for (int i = 0; i <= 3; ++i)
31      {
32          cout << "array[" << i << "]: " << array[i] << endl;
33      }
34
35      return 0;
36  }

```

Search Error

OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR

Breakpoint 6, main () at /home/pc46/lab_final205/CS205L_Final/debugging/bug.c++:23
23 int d = 10;

Breakpoint 7, main () at /home/pc46/lab_final205/CS205L_Final/debugging/bug.c++:24
24 while (d >= 0)

this is error

```
Result: 3
Uninitialized variable c: 0
d: 1
d: 2
d: 3
d: 4
d: 5
d: 6
d: 7
d: 8
d: 9
d: 10
d: 11
array[0]: 1
array[1]: 2
array[2]: 3
[1] + Done
"/usr/bin/gdb" --interpreter=mi --tty=${DbgTerm} 0<"/tmp/Microso
pc46@pc46:~/lab_final205/CS205L_Final/debugging$
```

```
{ } launch.json  bug.c++ x
bug.c++ > main()
Click here to ask Blackbox to help you code faster
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      int a = 5;
8      int b = 0;
9      int result = 0;
10
11      for (int i = 0; i <= a; ++i)
12      {
13          b += i;
14      }
15
16      result = b / a;
17
18      cout << "Result: " << result << endl;
19
20      int c;
21      cout << "Uninitialized variable c: " << c << endl;
22
23      int d = 0;
24      while (d++ <= 10)
25      {
26          cout << "d: " << d << endl;
27      }
28
29      int array[3] = {1, 2, 3};
30      for (int i = 0; i <= 2; ++i)
31      {
32          cout << "array[" << i << "]: " << array[i] << endl;
33      }
34
35      return 0;
36  }
```

QUESTION# 3

```
pc46@pc46:~/lab_final205/CS205L_Final$ nano index.html
pc46@pc46:~/lab_final205/CS205L_Final$ nano index.html
pc46@pc46:~/lab_final205/CS205L_Final$ docker build -t
```

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left shows a project structure with a 'DOCKER' folder containing 'docker-compose.yml', 'Dockerfile', and 'index.html'. The main editor area has two tabs: 'Dockerfile' and 'index.html'. The 'Dockerfile' tab is active, showing the following content:

```
1 FROM python:3.9
2
3 WORKDIR /app
4
5 COPY index.html index.html
6
7 COPY . .
8
9 CMD ["python", "app.py"]
10
```

```
pc46@pc46:~/lab_final205/CS205L_Final/docker$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED
recipe.html         latest             9f657ec32f23       9 seconds ago
bforbilal2003/recipe latest             bb31e75e5d7e       7 days ago
```

```
pc46@pc46:~/lab_final205/CS205L_Final/docker$ sudo docker tag 9f657ec32f23 bforbilal2003/recipe:latest
pc46@pc46:~/lab_final205/CS205L_Final/docker$ sudo docker push bforbilal2003/recipe
Using default tag: latest
The push refers to repository [docker.io/bforbilal2003/recipe]
99109f3b324b: Pushing 6.144kB
65bb79679f98: Pushing 4.096kB
ff7852aa859b: Pushing 1.536kB
```

Create repository

bforbilal2003 / recipe

Contains: Image

Last pushed: less than a minute ago

Security unknown

☆ 0

📦 0

🌐 Public

QUESTION# 4

```
0 > server/app/server.py
```

```
bash: syntax error near unexpected token `)'
```

```
pc46@pc46:~/lab_final205/CS205L_Final/docker/server$ echo 'from flask import Fla
sk\n\napp = Flask(__name__)\n\n@app.route(\'/\')\ndef square_root():\n    n = 25
    # Default value for n\n    return f"The square root of {n} is: {n ** 0.5}"
\n\nif __name__ == \'__main__\':\n    app.run(debug=True, host=\'0.0.0.0\', port=500
0' > server/app/server.py
```

```
bash: syntax error near unexpected token `)'
```

```
pc46@pc46:~/lab_final205/CS205L_Final/docker/server$ nano server.py
```

```
pc46@pc46:~/lab_final205/CS205L_Final/docker/server$ █
```