DAILY ONLINE ACTIVITIES SUMMARY

Date:	**18-05-2020**	**Name:**	**Apoorva H P**
Sem & Sec	**VI A**	**USN:**	**4AL17CS011**

Online Test Summary

Subject	**CNSC IA Test**		
Max. Marks	**60**	**Score**	**36**

Certification Course Summary

Course	**Python for Machine learning**		
Certificate Provider	**GreatLearning**	**Duration**	**5hr**

Coding Challenges

Problem Statement:

1.Using methods charAt() & length() of String class, write a program to print thefrequency ofeach character in a string.

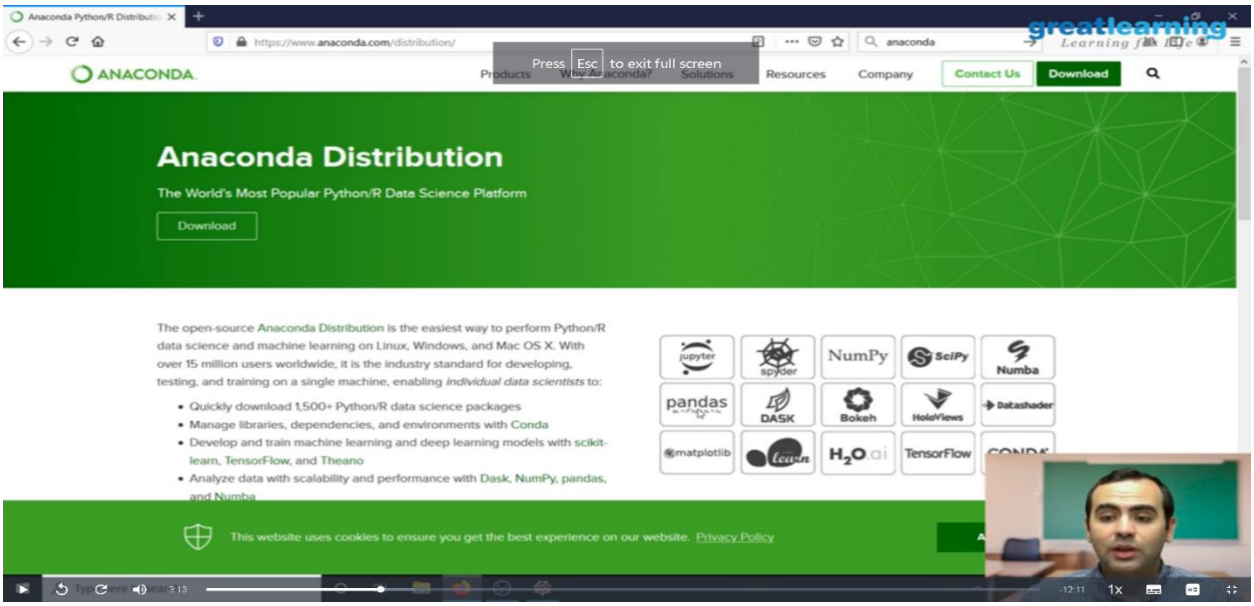
2.Write down a java program to print even and odd numbers series respectivelyfrom twothreads: t1 and t2 synchronizing on a shared object
Let t1 print message "ping — >" and t2 print message ",—-pong".

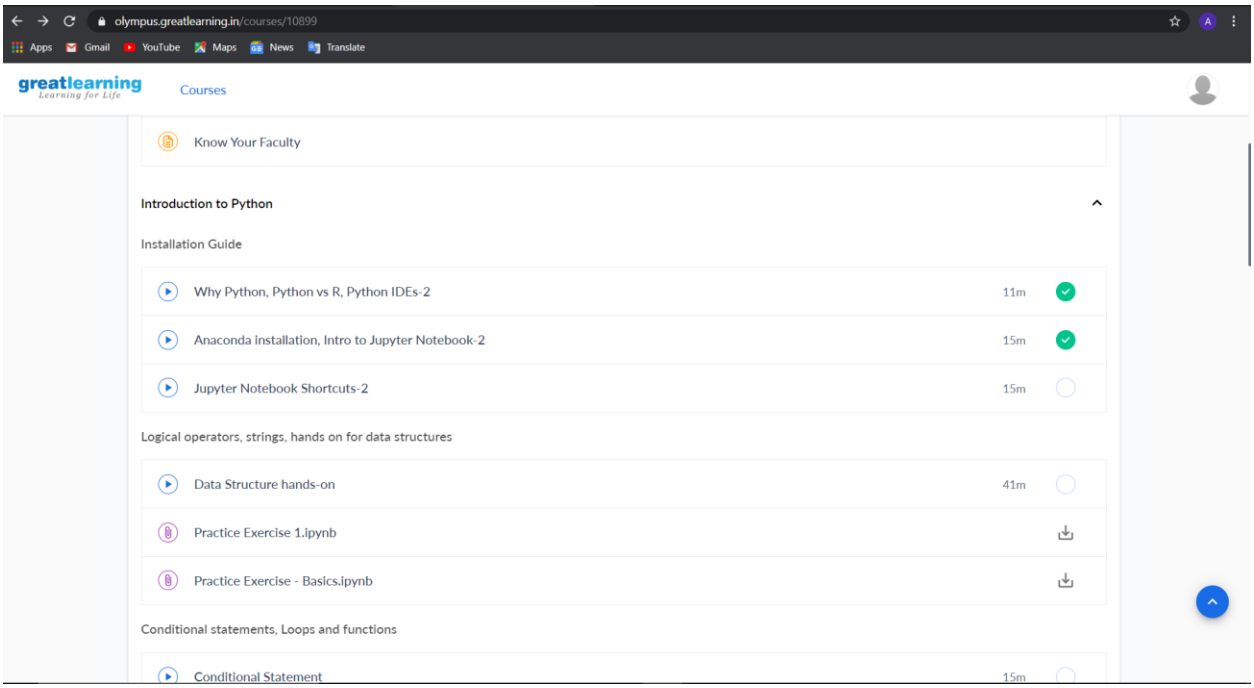
Status:Completed,executed

Uploaded the report in Github	**Yes**
If yes Repository name	https://github.com/ashaapoorva/online-coding-and-certification-course
Uploaded the report in slack	**Yes**

Online Certification Details

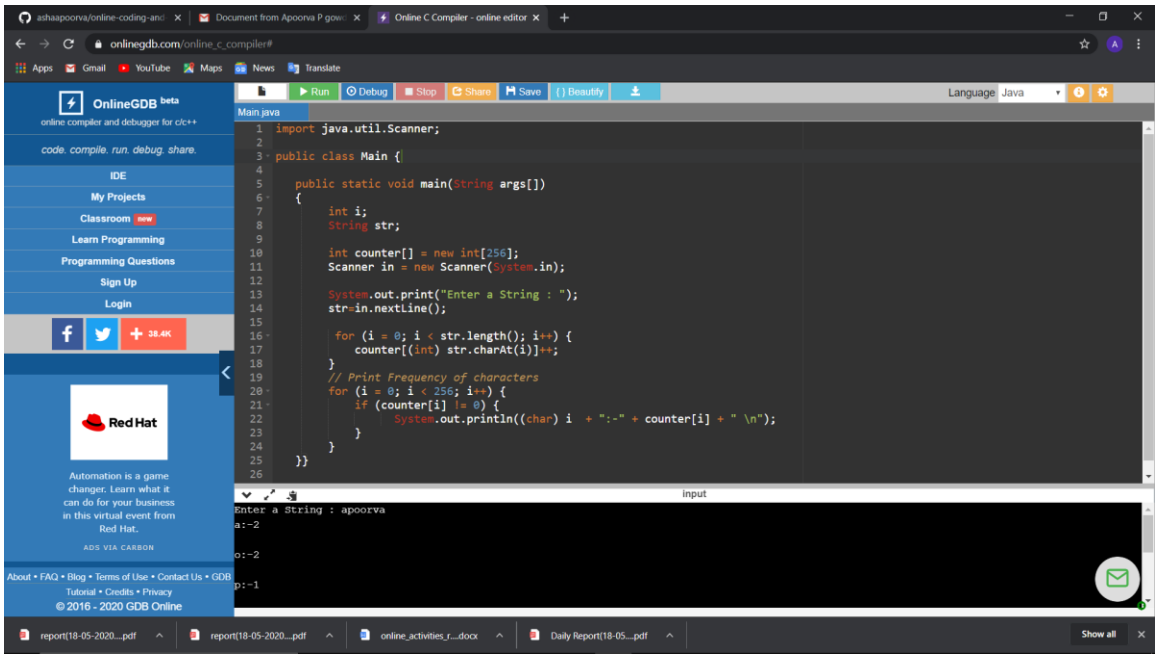
Modules completed:
-Why python, python vs R,
-Anaconda installation,Intro to Jupyter Notebook-2
-Jupiter Notebook Shortcut-2

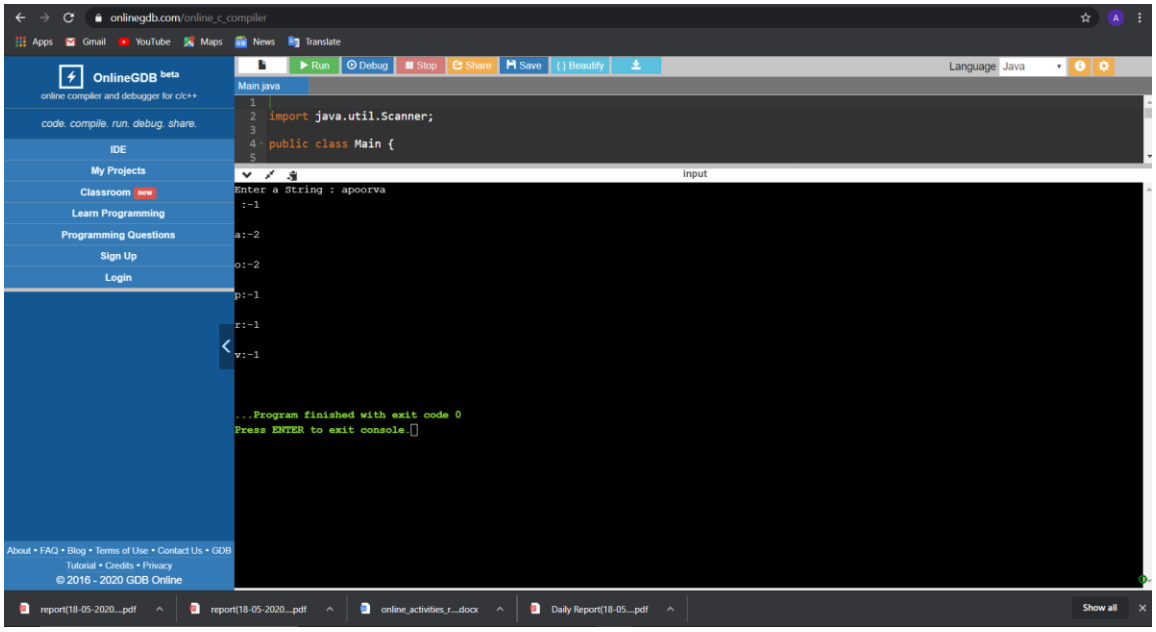




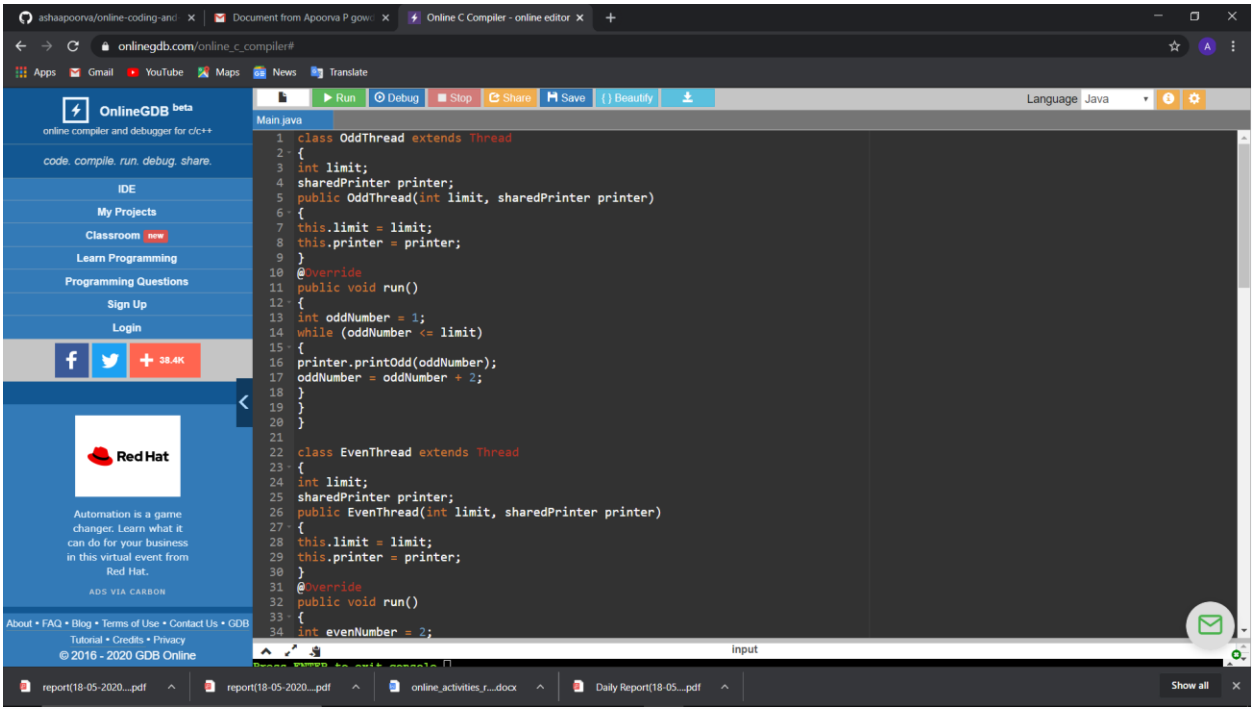
Coding Challenge Details

1. Using methods charAt() & length() of String class, write a program to print the frequency of each character in a string.

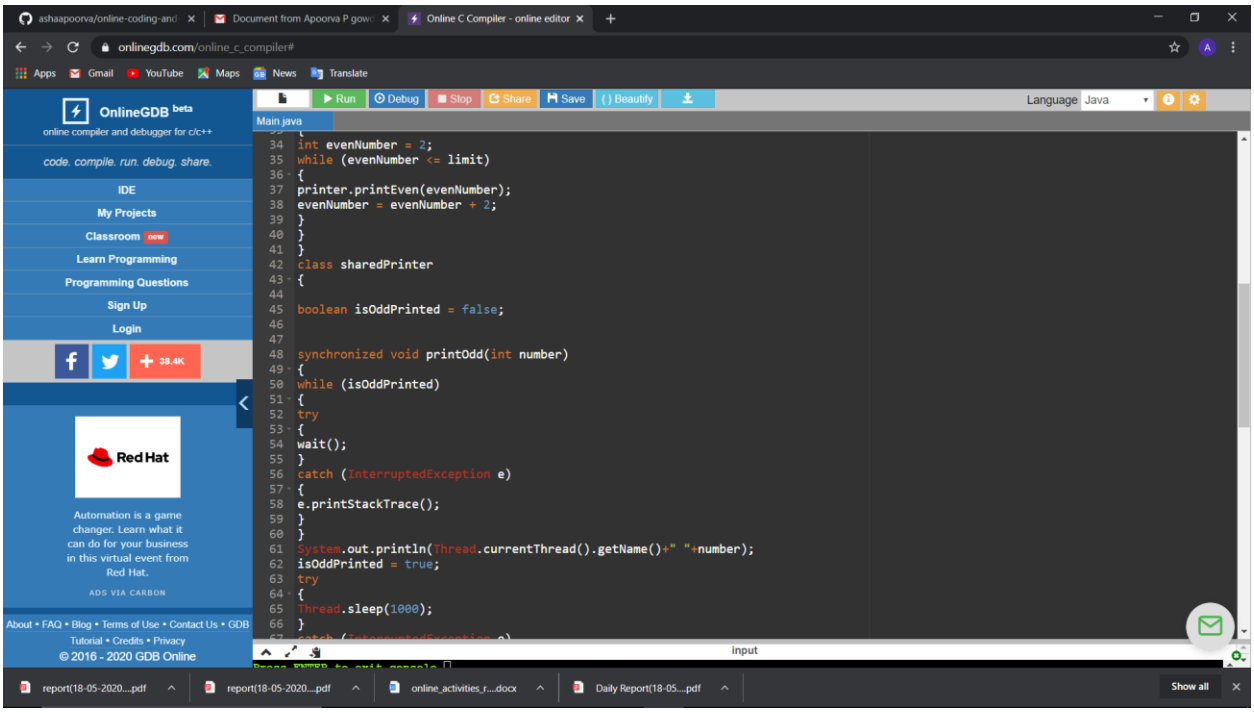




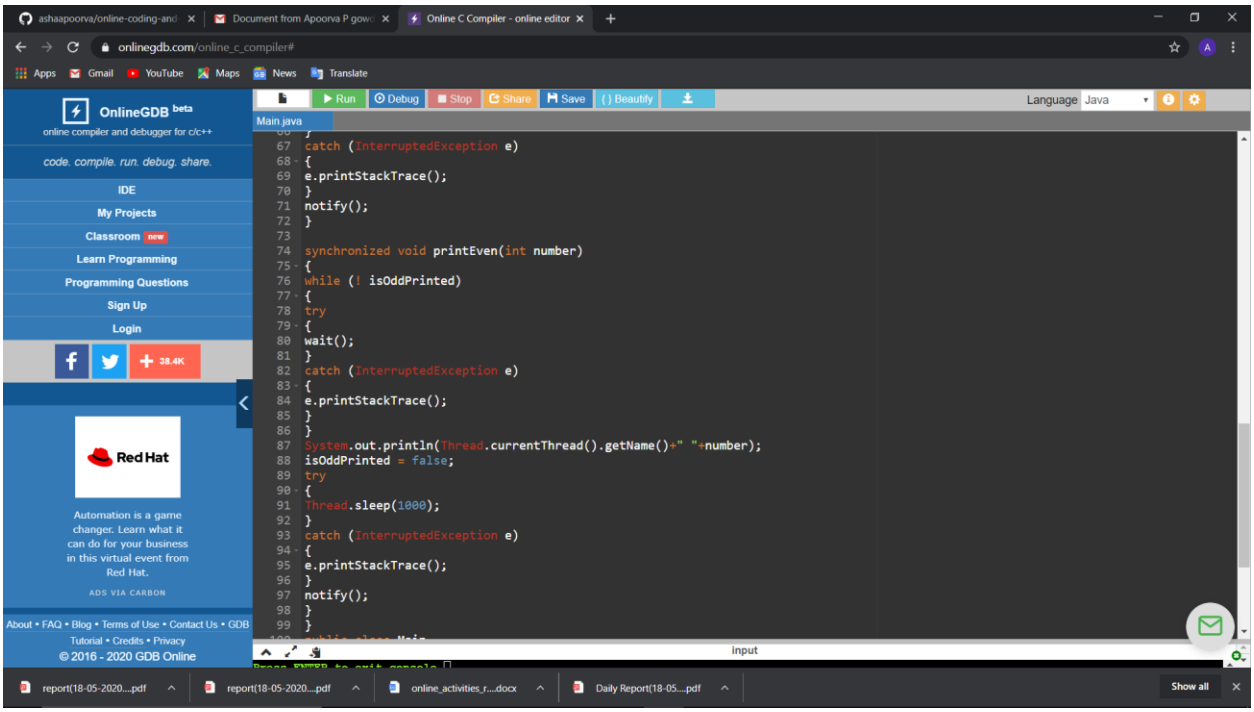
2. Write down a java program to print even and odd numbers series respectively from two threads: t1 and t2 synchronizing on a shared object
Let t1 print message “ping — >” and t2 print message “,—-pong”.



```
class OddThread extends Thread
{
int limit;
sharedPrinter printer;
public OddThread(int limit, sharedPrinter printer)
{
this.limit = limit;
this.printer = printer;
}
@Override
public void run()
{
int oddNumber = 1;
while (oddNumber <= limit)
{
printer.printOdd(oddNumber);
oddNumber = oddNumber + 2;
}
}
}

class EvenThread extends Thread
{
int limit;
sharedPrinter printer;
public EvenThread(int limit, sharedPrinter printer)
{
this.limit = limit;
this.printer = printer;
}
@Override
public void run()
{
int evenNumber = 2;
```



```
int evenNumber = 2;
while (evenNumber <= limit)
{
printer.printEven(evenNumber);
evenNumber = evenNumber + 2;
}
}
}
class sharedPrinter
{

boolean isOddPrinted = false;


synchronized void printOdd(int number)
{
while (isOddPrinted)
{
try
{
wait();
}
catch (InterruptedException e)
{
e.printStackTrace();
}
}
System.out.println(Thread.currentThread().getName()+" "+number);
isOddPrinted = true;
try
{
Thread.sleep(1000);
}
```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Run Debug Stop Share Save { } Beautify
Language Java
Main.java
67 catch (InterruptedException e)
68 {
69 e.printStackTrace();
70 }
71 notify();
72 }
73
74 synchronized void printEven(int number)
75 {
76 while (! isOddPrinted)
77 {
78 try
79 {
80 wait();
81 }
82 catch (InterruptedException e)
83 {
84 e.printStackTrace();
85 }
86 }
87 System.out.println(Thread.currentThread().getName()+" "+number);
88 isOddPrinted = false;
89 try
90 {
91 Thread.sleep(1000);
92 }
93 catch (InterruptedException e)
94 {
95 e.printStackTrace();
96 }
97 notify();
98 }
99 }
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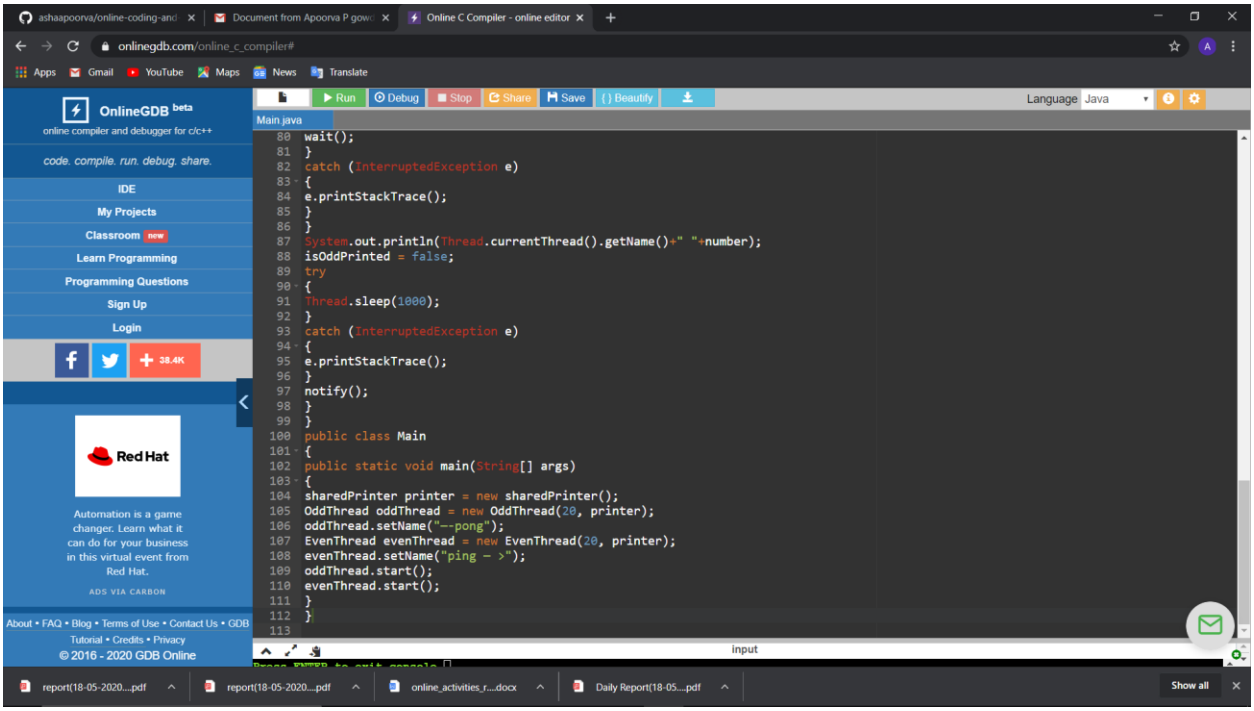
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Run Debug Stop Share Save { } Beautify
Language Java
Main.java
80 wait();
81 }
82 catch (InterruptedException e)
83 {
84 e.printStackTrace();
85 }
86 }
87 System.out.println(Thread.currentThread().getName()+" "+number);
88 isOddPrinted = false;
89 try
90 {
91 Thread.sleep(1000);
92 }
93 catch (InterruptedException e)
94 {
95 e.printStackTrace();
96 }
97 notify();
98 }
99 }
100 public class Main
101 {
102 public static void main(String[] args)
103 {
104 sharedPrinter printer = new sharedPrinter();
105 OddThread oddThread = new OddThread(20, printer);
106 oddThread.setName("--pong");
107 EvenThread evenThread = new EvenThread(20, printer);
108 evenThread.setName("ping - >");
109 oddThread.start();
110 evenThread.start();
111 }
112 }
113
input
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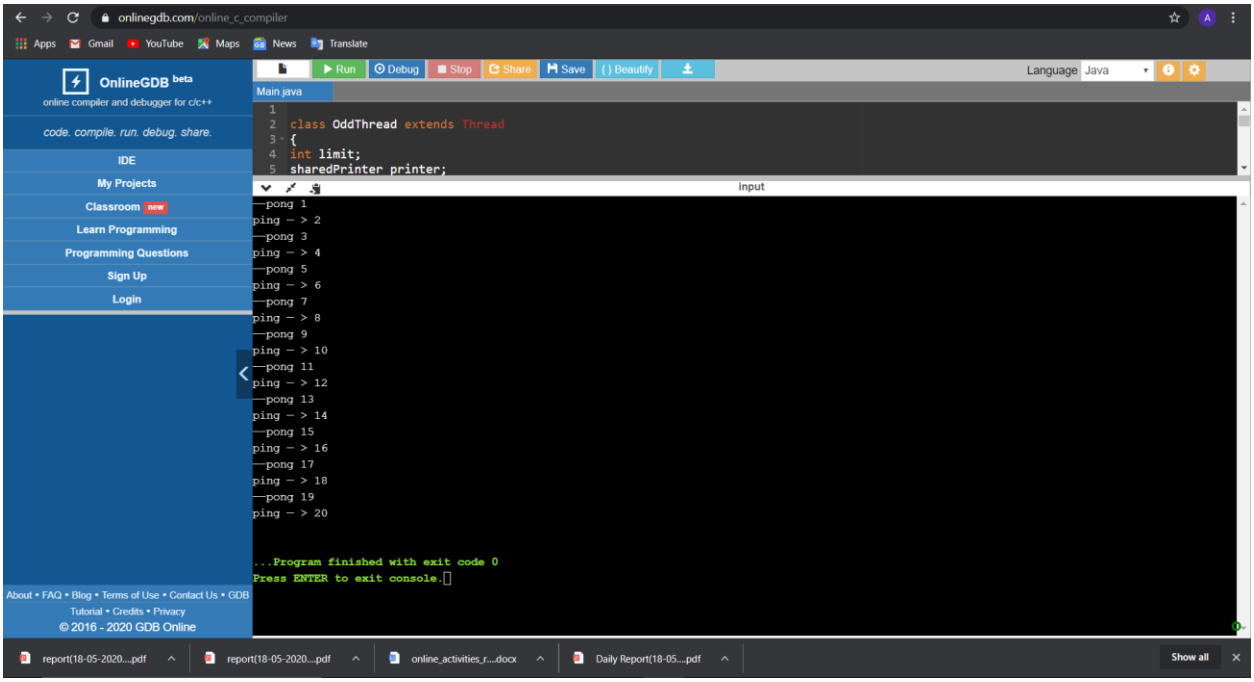
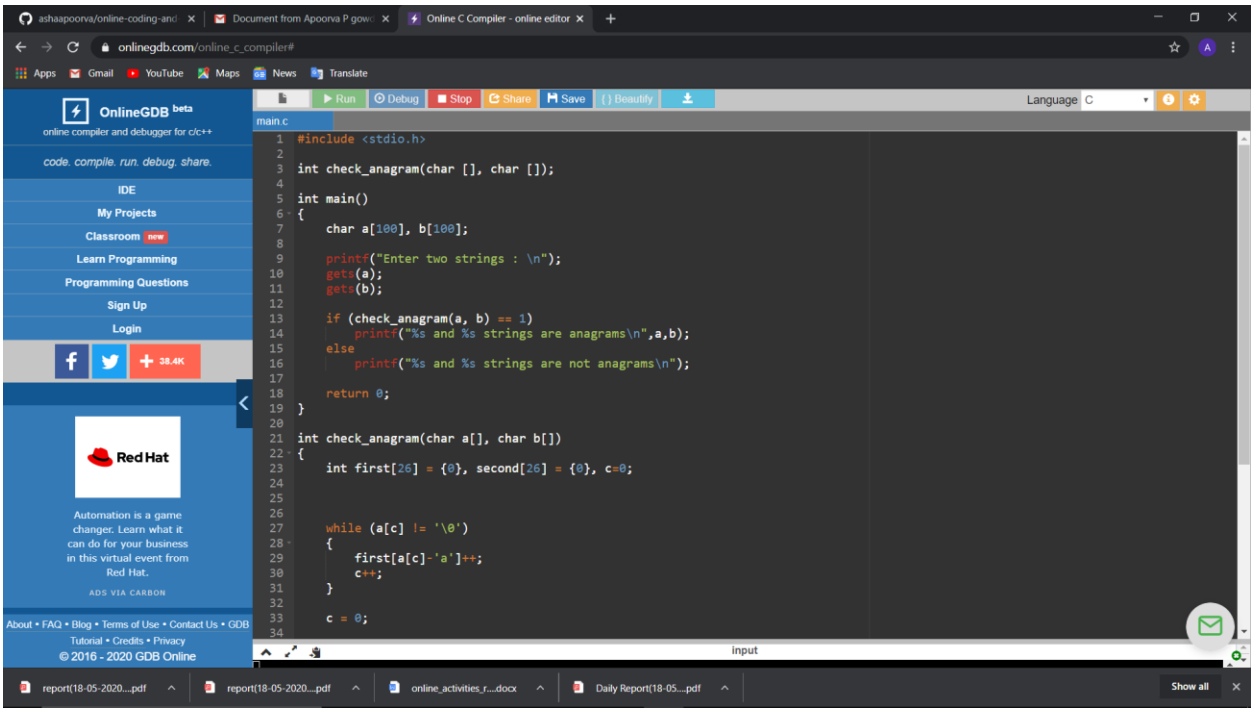
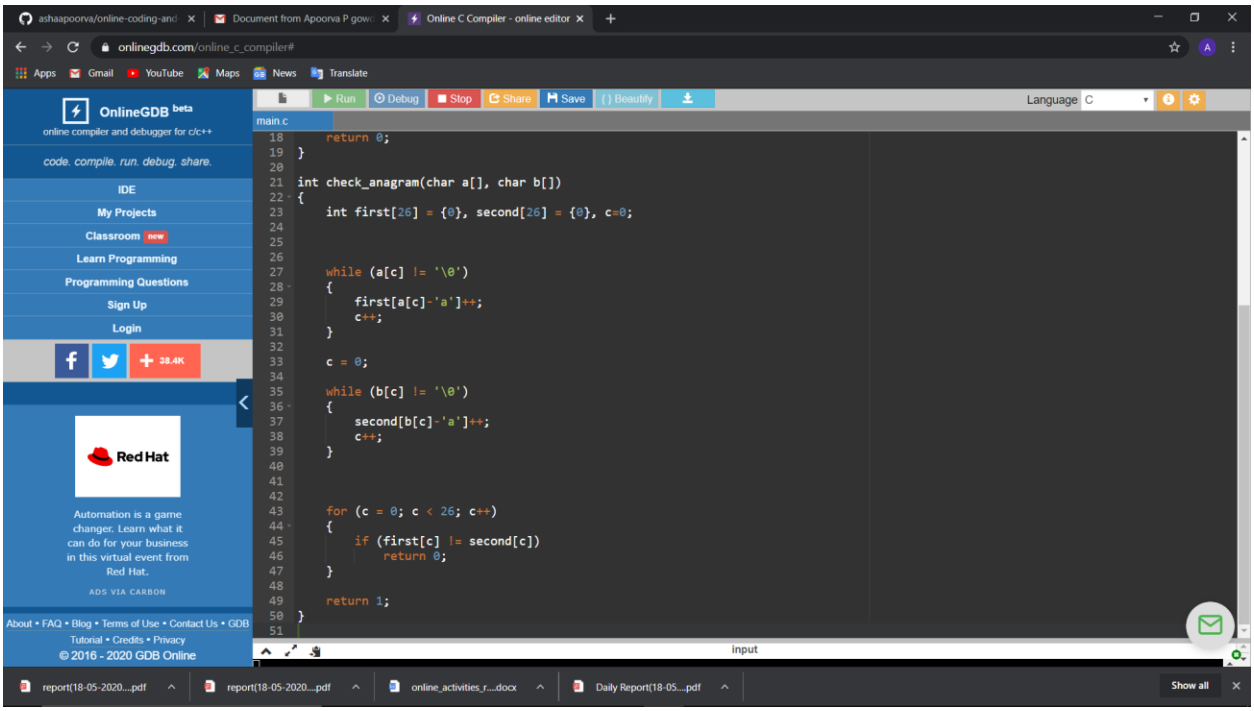


3.write a c programme to check whether two strings are anagrame or not

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{ } Beautify
Language C
main.c
return 0;
}
int check_anagram(char a[], char b[])
{
int first[26] = {0}, second[26] = {0}, c=0;
while (a[c] != '\0')
{
first[a[c]-'a']++;
c++;
}
c = 0;
while (b[c] != '\0')
{
second[b[c]-'a']++;
c++;
}
for (c = 0; c < 26; c++)
{
if (first[c] != second[c])
return 0;
}
return 1;
}
input
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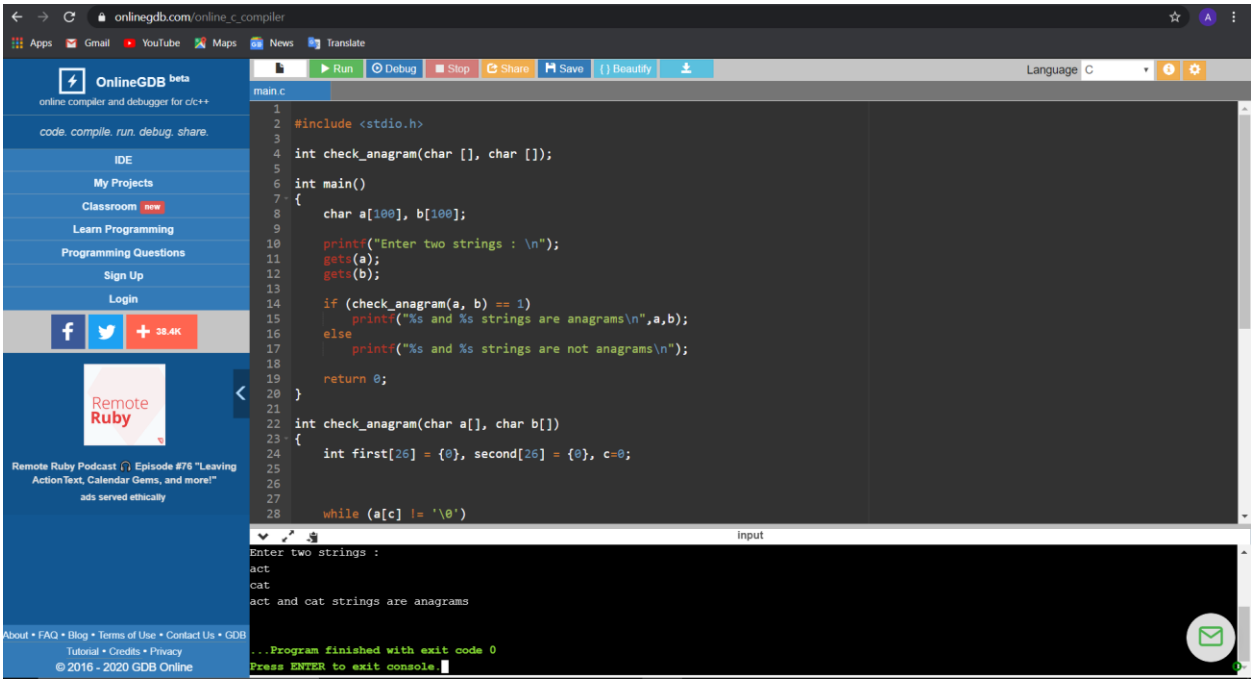
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Run
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{ } Beautify
Language C
main.c
#include <stdio.h>
int check_anagram(char [], char []);
int main()
{
char a[100], b[100];
printf("Enter two strings : \n");
gets(a);
gets(b);
if (check_anagram(a, b) == 1)
printf("%s and %s strings are anagrams\n",a,b);
else
printf("%s and %s strings are not anagrams\n");
return 0;
}
int check_anagram(char a[], char b[])
{
int first[26] = {0}, second[26] = {0}, c=0;
while (a[c] != '\0')
input
Enter two strings :
act
cat
act and cat strings are anagrams
...Program finished with exit code 0
Press ENTER to exit console.

Coding Test Details