

Plagiarism Detection using JPlag

Qurrat-ul-ain Babar NUST LMS 5/9/2012



Creating JPlag Assignment:

- 1. Select the course on your main home page, in which you want to upload JPlag Assignment
- 2. Click "Turn editing on" button on the top right corner of the window.

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ity Upcoming event		LMS Portal Management System	You ar	e logged in as <u>Curratul-ain Babar (Lopoul</u>)
activ	Site news Troublesho	oting FAQ Suggestions Contact us Training		
Recent	My home ► My courses ► San	dbox_Qurat	Under your course, Click 'Turn editing on'	Turn editing on
	Navigation			Latest news
	My home Site home	Weekly outline		Add a new topic (No news has been posted
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	SandBox_Zunera	26 July - 1 August		Messages
	Computer Programming/(SE103)	🔊 Java Assignment 1		No messages waiting Messages

3. From the list of Add an Activity, under Assignments, select "Upload a JPlag assignment".



4. This will redirect you to the assignment creation page for JPlag. Set the assignment options here and click *"Save and return to the course"*.

avigation	Updating Assignment	in 26 July - 1 August	
Av home	General		
 Site home Site pages 	Assignment name*	Java Assignment 1	
My profile My courses	Description*	Font family - Font size - Format	Set assignment ontions here and
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ettings - III Silt		Upload your properly working program files with ext ".java" only otherwise your submission will be ignored.	
 Assignment administration Edit settings 			
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Permissions			
Check permissions			
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# Logs		Path:	
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 No attempts have been 			
assignment	Due date	14 • May • 2012 • 10 • 40 • Enable	
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Switch role to	Prevent late submissions		
My profile settings	Grade		
Site administration	Grade	Scale: 10.0	
	Grade category	Uncategorised 💌	
Search			
THE REAL PROPERTY AND	Upload a JPlag assignment		
	Maximum size	16MB	

5. On your course page, JPlag assignment will be created. Click on the link to view the submissions.

←	→ C ↑ ③ 115.186.57.182	2/portal/course/view.php?id=1750			公
Recent activity Upcoming events	Navigation III My home Site home Site pages My profile My courses Course Course administration Site mediting on Edit settings Users Users Users Unerrol me from Sandbox Quart Filters	Weekly outline News forum Stast document News forum Stast document News forum Stast document DataWare Housing Assignment Assignment 1 Voting Assignment 1 Voting Assignment 1 Voting Nest		_	Add a new topic. (Vo news has been posted yet) Buy & Sell Books Cl Search for the books. Title: Search Advance Search Post Books Available Books
	Grades Outcomes Backup Restore Vubish Reset Question bank Legacy course files	26 July - 1 August 26 July - 1 August 26 July - 1 August 2 August - 8 August 9 August - 15 August	On your course page, a JPlag Assignment will be created. Click the link to check the submissions		My Books Messages No messages wailing Messages Calendar May 2012

Originality Report:

1. On the assignment submission page, click the "*View x submitted assignments*" (where x is the number of assignments submitted).

← → C ⋒ ③ 115.186.5	7.182/portal/mod/assignment/view.php?id=46056		ជ
	LMS Portal Management System	You are to	gged in as <u>Qurrat-ul-ain Babar (Lopout)</u>
Site news Troubleshoot My home ► My courses ► San Navigation ► My Site home Site pages My profile My courses Courses Settings Assignment administration Edit settings Locally assigned roles Permissions	ting FAQ Suggestions Contact us Training tbox_Qurat ▶ 26 July - 1 August ▶ Java Assignment 1 Upload your properly working program files with ext ".java" only otherwise your submission will be ignored. Available from: Monday, 7 May 2012, 10:40 AM Due date: Monday, 14 May 2012, 10:40 AM Submission draft No files submitted yet Upload files Final submission for assignment marking Send for marking	View 4 submitted assignments Click the link "View x submitted assignments" where x = number of submission	Buy & Sell Books

This will redirect you to the page where you can view the student submissions.

2. Click the button *"JPlag Submission"* to submit the assignment to JPlag web service.

← → C ff ③ 115.186.5	7.182 /pc	ortal/mod/assignment/sub	missions.php?id=46056	5		
Site news Troubleshoo	ting	FAQ Suggestions	Contact us Train	ing		
My home ► My courses ► Sand	lbox_Qura	at 🕨 26 July - 1 August 🕨 Jav	va Assignment 1 ► View 4	submitted assignments		
	First na	me:AIIABCDEFGHIJ	KLMNOPQRSTUV	Click the button 'JPlag Submi:	ssion'	
	Surnam Page: 1	e:AllABCDEEGHIJK I <u>2</u> (Next)	LMNOPQRSIUVV	VXYZ		
	Ξ	First name / Surname + E	Grade Comment	Last modified (Submission) E Last modified	(Grade) - Status - Final grade -	
		Zaeem Ahmed Abbasi		Draft: └─ <u>1.java</u> Monday, 7 May 2012, 11:06 AM	<u>Grade</u> -	
		<u>Nawab Ali</u>	-	- 赋 2.java 赋 <u>3.java</u> Monday, 7 May 2012, 11:07 AM	Grade -	
		<u>Hassan Ali</u>		└_ਜ਼) <u>4.java</u> Monday, 7 May 2012, 11:09 AM	Grade -	
		Sameen Arshad		- <u>-</u> - <u>2.java</u> - <u>-</u> <u>4.java</u> Monday, 7 May 2012, 11:11 AM	Grade -	
	2	<u>umair farooqi</u>	-		<u>Grade</u> -	
		Syed Zafar-ul-Hussan Gilani	-		<u>Grade</u> -	
		Ahmad Ali gul	-		Grade -	
		Kamran Hamid	-		Grade -	

3. Select the language from drop down menu for which the submissions will be accepted and click the *"Submit"* button.

	NUST LN Learning Mana	MS Pogement	ortal System								You are	logged in as <u>Qurr</u>	at-ul-ain Baba	r (Lonout)
Site news	Troubleshooting	FAQ	Suggestions	Contact us	Training									
My home ► JP	Plag Form													
Options	Language ji ji ji	ava 12 💌 ava 12 ava 15 ava 15dm	Select the dr	the languag op down me	ge for sub enu and cl	missions ick 'Subr	from mit'							
		scheme s/c++ ext shar s#-1.2		Last Yo	Mond ∟ogin at 07- u are logged	ay, May 7, : 05-2012 11 I in as Qurr	2012 11:2 1:09:28 fro rat-ul-ain B	7:33 m 111.68.9 abar (Logo	97.27 ut)					
						Hon	ne							

4. After some processing, a link will appear. Click the link *"View Result"* to view the plagiarism report.

	NUST LA	AS P	ortal System								You	are logged in a	ss <u>Qurrat-ul-a</u>	n Babar (Log.	<u>)</u>
Site news	Troubleshooting	FAQ	Suggestions	Contact us	Training										
My home ► JP	lag Form														
Options	Options Language java15 • Sumbit														
The result files :	are available in "Result A	ssianmen ew Result	t_ID_2012_05_07"	Click the lin to view pla	ık 'View Re giarism rep	esult ' port									

< > C fi 01	115.186.57.182/portal/mod/assignment/Result_/	Assignment_ID_2012_05_09/ 5	3 3
	JPlag	Search Results	
	Title:	submission-2012-05-09 The submissions will be listed her	
	Directory:	//moodledata1/1750/3732/7210	
	Programs:	Nawab_Ali_2.java - Nawab_Ali_3.java - Sameen_Arshad_2.java - Zaeem Ahmed_Abbasi_1.java	
	Language:	Javal.5 Parser	
	Submissions:	4 (2 have not been parsed successfully) Invalid program files which do	
	Invalid submissions (see log file) :	Bassan_Ali_4.java - Sameen_Arshad_4.java not compile will be listed here	
	Matches displayed:	6 (Treshold: 1.9%) (average similarity) 6 (Treshold: 6.0%) (maximum similarity)	
	Date:	2012-05-09	
	Minimum Match Length (sensitivity):	8	
	Suffixes:	java, jav, JAVA, JAV 💦 📥 Allowed file extensions are listed here	
Distribution:	90% - 100% 1 ##### 80% - 90% 0 70% - 80% 0 60% - 70% 0 50% - 60% 0 40% - 50% 0 30% - 40% 0 20% - 30% 0		

Your results will be shown in the separate window in the following form.

5. In order to view the matches in the submission files, click the link as shown below:

← → C ☆ ③ 115.186.	57.1	82/portal/mod/assignment/F	esult_Assignment_I	D_2012_05_09/				\$
		00%0 - 70%0 0						
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		0% - 10% 4	****		*****	*****	*****	
Matches sorted by average s Sameen_Arshad_2.java Nawab_Ali_3.java Zaeem Ahmed_Abbasi_1.java	simil -> ->	arity (What is this?): Nawab_Ali_2_java (100.0%) Zaeem Ahmed_Abbasi_1_java (17.5%) Nawab_Ali_2_java (1.9%)	Nawab Ali 3.java (8.4%) Nawab Ali 2.java (8.4%)	Zaeem Ahmed_Abbs (1.9%)	asi_1.java	⇔	Click the link to view the matches among the submissions	
Matches sorted by maximum	n sin	ilarity (<u>What is this?</u>):						
Sameen_Arshad_2.java	->	<u>Nawab_Ali_2.java</u> (100.0%)	<u>Nawab_Ali_3.java</u> (14.0%)	Zaeem Ahmed_Abba (6.0%)	<u>asi_1.java</u>			
Nawab_Ali_3.java	->	Zaeem Ahmed_Abbasi_1.java (27.0%)	<u>Nawab_Ali_2.java</u> (14.0%)					
Zaeem Ahmed_Abbasi_1.java	->	<u>Nawab_Ali_2.java</u> (6.0%)						

JPIag2.11.6

6. The plagiarism detection between two files will be displayed as shown below.

← → C ☆ ③ 115.186.57.182/portal/mod/assignm	nent/Result_Assignment_ID_2012_05_09)/match3.html	公
Matches for Zaeem Ahmed_Abbasi_1.java & Nawab_Ali_3.java 17.5%	Corresponding matches in the files are mentioned here	Zaeem Ahmed Abbasi 1 java(174-182) Nawab Ali 3 java(454-469) 13 Zaeem Ahmed Abbasi 1 java(228-232) Nawab Ali 3 java(258-261) 8 Zaeem Ahmed Abbasi 1 java(461-465) Nawab Ali 3 java(59-63) 9 Zaeem Ahmed Abbasi 1 java(491-497) Nawab Ali 3 java(21-42) 12 Zaeem Ahmed Abbasi 1 java(50-611) Nawab Ali 3 java(22-142) 12 Zaeem Ahmed Abbasi 1 java(50-611) Nawab Ali 3 java(24-32) 10	
<pre>{ alpha = no; codes = new String[alpha]; alphabets=new char[alpha]; for(int i=0;i<alpha;i++) (alphabets[i]="alphal[i];")="" ;="" correct="" curr="currtenc.chart(1);" decryption(string="" dours="" enc)="" for(int="" i="0;i<en.length();i++)" if(value!="-1)</td" int="" public="" string="" the="" value="searchcode(curr);" {=""><td>e matching code is color ded for plagiarism detection</td><td><pre>return output_stream; } //</pre></td><td>ised ∰</td></alpha;i++)></pre>	e matching code is color ded for plagiarism detection	<pre>return output_stream; } //</pre>	ised ∰
nublic int search(char sv)			