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				m Sounce Code	Moragener
	Install git and Create a althor account.				
	II .			ins on local an	d Remote
	repositone	s using GIT	Cheat-S	heet.	
	Problem Stat	remont:			
			nowledge	OF the " Version	Contract
	system" to	effectively	track or	enges augmented	with
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0	Theroy:		Carlotte and a		
#	Version Con	trol System:			
	1100 0		0 . 0		
	VCS Stands	For Version	Control Sy	stem Which is	a software
	Tool that he	elbs wounds	and keep	p track of ch	onges made
				e project. It o	
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	or changes	made to	ING Code	and easily r	event back
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#	CHARACTERISTICS OF VCS:				
	The main Characteristics of Version Control System include:				
	a) Version Tracking:				
	VCs Track Changes made to the code base and Store				
	different versions of the code, allowing developers				
-	to easily access and compare Previous version				
-					
-	b) Collabration:				
	VCS allow Trultiple developers to work on the some				
	Code because simultaneously and merge their Changes				
	ruto or single code rebositoria.				
	C) Brench vaci :				
	VCS enables developers to Decres separate branches				
	of the code base allowing them to work on new				
	Feature or bug Fixes without affecting the				
	maio code				
	D) Menging:				
C Pale	Ves makes It possible to merge changes made in				
	different branches into the main code base.				
	e) Rollback:				
	Ves allows developers to revert back to previous				
	newson or code le vecessons.				
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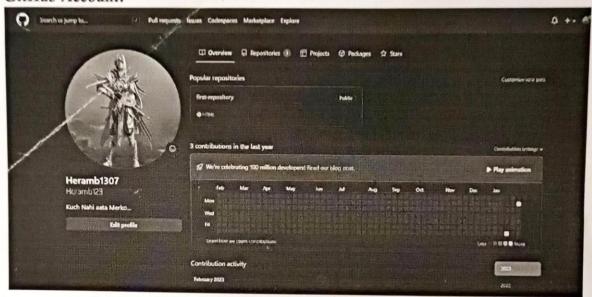
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	E) History: Ves provides a history of all changes made to the Code imaking it possible to see who made that change The cond when					
	a) Conflict Resolution: VCS provides tools For resolving Conflicts that anse when developers make multiple changes to the Same part of the code Simultan eausly					
	H) Security: Ves provides access control mechanism to ensure that any authorized user can make changes to the Code base					
#	GIT: Git is popular and widely-use distributed version control System (VCS) for Saftware development. It was created by Linus Torvalds in 2005 to manage the development of the Linux popular put has Since been adopted by a large number of Software development projects					
	Code base simultaneously treep track of Changes made to the code tand easily revert back to previous Versions if necessary. Cit is known for its speed reliability and efficient handling of large preject WERLD STAR" For Educational Use					

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				a powerful	
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Output:

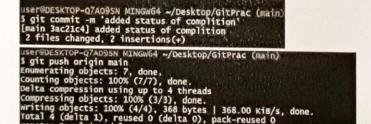
1. GitHub Account:

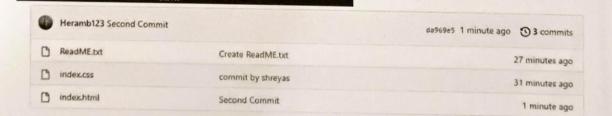


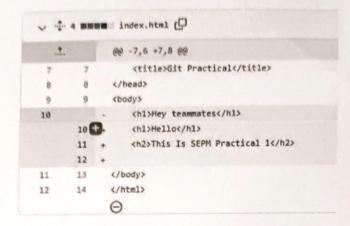
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2. Creating/cloning repository:

```
user@DESKTOP-Q7AO9SN MINGW64 ~/Desktop
$ git clone https://github.com/shreyassatre/GitPrac.git
Cloning into 'GitPrac'...
remote: Enumerating objects: 16, done.
remote: Counting objects: 100% (16/16), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 16 (delta 5), reused 8 (delta 2), pack-reused 0
Receiving objects: 100% (16/16), done.
Resolving deltas: 100% (5/5), done.
```





4. Creating new Branch:

```
user@DESKTOP-Q7AO9SN MINGW64 ~/Desktop/GitPrac (main)
$ git branch test

user@DESKTOP-Q7AO9SN MINGW64 ~/Desktop/GitPrac (main)
$ git checkout test
switched to branch 'test'

user@DESKTOP-Q7AO9SN MINGW64 ~/Desktop/GitPrac (test)
$ git branch
main
* test

user@DESKTOP-Q7AO9SN MINGW64 ~/Desktop/GitPrac (test)
$ git push origin test
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 299 bytes | 299.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Shreyassatre/GitPrac.git
3ac21c4..d5c2418 test -> test
```

5. Merging created branch with main branch:

```
user@DESKTOP-Q7A09SN MINGW64 ~/Desktop/GitPrac (main)
$ git merge test
Updating 3ac2lc4..ea24b40
Fast-forward
index.html | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

6. Deleting a branch:

user@DESKTOP-Q7A095N MINGW64 ~/Desktop/GitPrac (main)

§ git branch -d test
Deleted branch test (was ea24b40).

7. Contributors:

