

MMT ASSIGNMENT

NO.:1.1



COURSE CODE:CO19301 SS20CO008 (SECOND SHIFT) MANJIRI CHAVANDE

POPEN SOURCE MULTIMEDIA PROCESSING SOFTWARE

• A SOFTWARE WHOSE SOURCE CODE IS FREELY DISTRIBUTED WITH A LICENSE TO STUDY, CHANGE AND FURTHER DISTRIBUTED TO ANYONE FOR ANY PURPOSE IS CALLED OPEN SOURCE SOFTWARE.

PROCESSING SOFTWARE



GIMP

The GNU image manipulation program (GIMP) is a well known alternative for photoshop and feature rich free program.it also sets a standard for cutting-edge, photo-editing and many other features. This software is

also supported by a huge online community. It can be installed by windows installer.





© SOME OTHER IMAGE PROCESSING SOFTWARE ARE:

KRITA [digital painting]

PINTA [bitmap image drawing and editing]

DARKTABLE [raster graphics editor]

INKSCAPE [vector graphics]

SCRIBUS [desktop publishing]

Krita	Windows , Linux, macOS
Pinta	Windows , Linux, macOS
Darktable	Linux or MacOS

inkscape	Windows , Linux, macOS
scribus	Linux, FreeBSD, PC-BSD, NetBSD, OpenBSD, Solaris, Open Indiana, Debian GNU/Hurd, Mac OS X, OS/2 Warp 4, eComStation, Haiku and Windows

PROCESSING SOFTWARE



L AUDACITY

Audacity is an easy-to-use multi-track audio editor and recorder for Windows, GNU/Linux, macOS and other operating systems.











TRAVERSO DAW [multi-track audio recorder and editor]

ARDOUR (digital audio recording)

MIXX [DJ, music mixing]

***QTRACTOR[digital audio workstation]

TRAVERSO DAW	Microsoft windows
ARDOUR	Linux, macOS, FreeBSD and Microsoft Windows
MIXX	Windows, macOS, and Linux
QTRACTOR	Linux, macOS, Android and Microsoft Windows

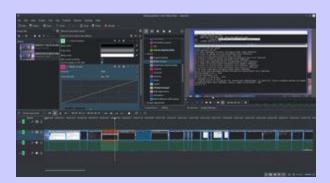
PROCESSING SOFTWARES



@KDENLIVE

It is a multi-track video editor, all kinds of audio/video format are supported with the help of FFmpeg libraries. It also consists of a 2D title maker and has customizable interface

and shortcuts. The proxy editing makes things faster and this software has many such features. It is available on platforms lie Linux, macOS and Windows.





SOME OTHER VIDEO PROCESSING SOFTWARE

- **B** BLENDER
- **SHOTCUT**
- **PITVI**
- VLC

BLENDER	Linux, FreeBSD, PC-BSD,
	NetBSD, OpenBSD, Debian
	GNU/Hurd, Mac OS X,
	OS/2 Warp 4, eComStation,
	Haiku and Windows
SHOTCUT	Windows , Linux, macOS,
	Free BSD
PITVI	■ Linux
VLC	Android, iOS, iPadOS,
	Tizen, Windows 10 Mobile, and
	Windows Phone

SOFTWARES

—OBS (live editing, recording, and streaming)		
□BLENDER VELVETS (video editing, compositing, effects)		
□OPEN SHOT (VIDEO AND AUDIO PROCESSING)		

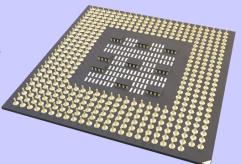
HARDWARE REQUIREMENTS FOR OPEN SOURCE SOFTWARES

RAM: Minimum 2GB

PROCESSER: Core2duo or higher

DISK SPACE: 10GB or higher

OS: Windows, Linux, MacOs



SOFTWARE REQUIRREMENTS FOR OPEN SOURE SOFWARE

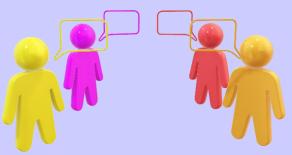
The standard must not withhold any detail necessary for interoperable implementation.

The standard must be freely and publicly available under royalty-free terms at reasonable and non-discriminatory cost.

There must not be any requirement for execution of a license agreement, NDA, grantclick-through or any other form of paperwork to deploy conforming implementations of the standard.

THE REPORT CONTAINS ANALYSIS OF DIFFERENT TYPES OF OPEN SOURCE MULTIMEDIA PROCESSING SOFTWARE BASED ON THEIR CATEGORY AND USES. IT GIVES US A VIVID DESCRIPTION ABOUT THEIR HARDWARE AND SOFTWARE REQUIREMENTS.







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WEBSITE / AUDIO / VIDEO AND THEIR LICENSES:

	LICENSE TYPE
WIKIPEDIA	CREATIVE COMMONS
	attribution share alike
	LICENSE

VISHWAMOHINI (audio website)	COPYRIGHTED
SPOKEN	CREATIVE COMMANS
TUTORIAL	ATTRIBUTION SHARE ALIKE
TUTORIALS	COPYRIGHTED
POINT	
PIXABAY	CREATIVE COMMONS
ORACLE	COPYRIGHT
AUDIONAUTIX	CREATIVE COMMONS
EBAY	COPYRIGHT
FREE STOCK	PUBLIC DOMAIN
PHOTOS	
STACK OVERFLOW	COPYRIGHT





SOFTWARE USED :GIMP

SS20CO008

MMT ASSIGNMENT





THIS IS THE ORIGINAL IMAGE IMPORTED IN THE COMPUTER

Image

Image ID

Dimensions 1080 x 495

Width 1080 pixels

Height 495 pixels

Horizontal resolution 96 dpi

Vertical resolution 96 dpi

Bit depth 24

Compression

Resolution unit

Color representation

Compressed bits/pixel

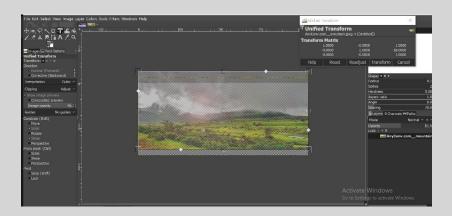
IMAGE AFTER CHANGING THE BRIGHTNESS AND CONTRAST



 IMAGE AFTER ADDING HEU SATURATION AND SOME FILTERS



RESIZING THE IMAGE





• IMAGE AFTER CHANGING THE SHARPNESS



CROPPING THE EDGES OF THE IMAGE



NEGATIVE OF THE IMAGE





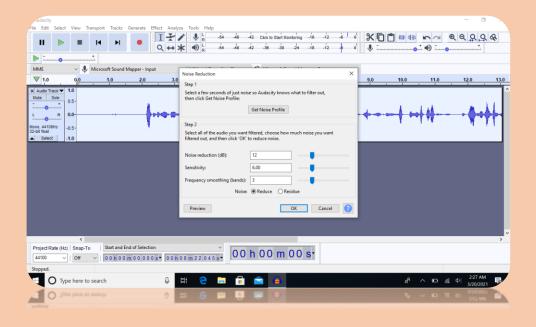
FINAL OUTPUT



SIZE IN PIXELS	1022 X410 pixels
RESOLUTIONS	300 X300 ppi
NUMBER OF PIXELS	419020

AUDIO EDITING

USING AUDACITY

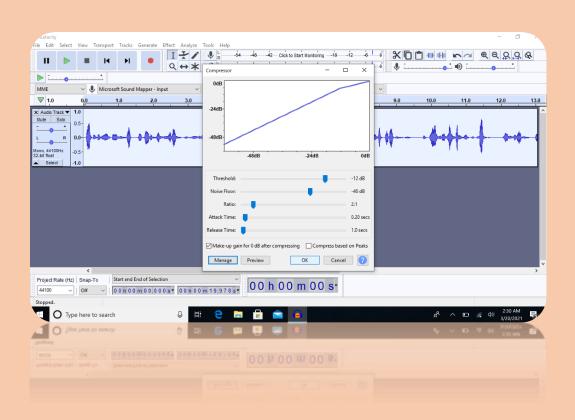


NOISE REDUCTION PROCESS IS PERFORMED FOR REMOVING THE UNNECESSARY BACKGROUND NOISE.

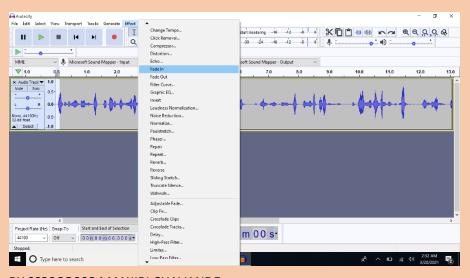
WE CAN PERFORN THE PROCESS AS MANY TIMES AS REQUORED UNTIL YOU ARE SATISFIED WITH THE FINAL OUTPUT.

SPLITING IN THE TRACK

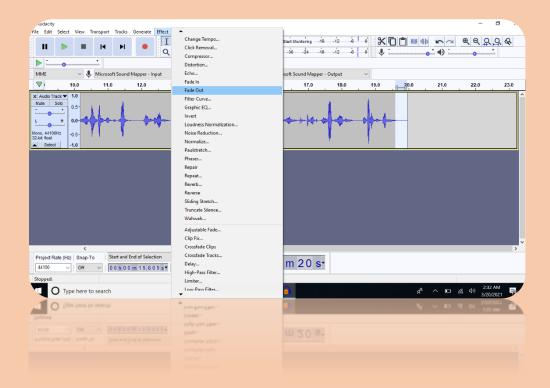




AFTER REMOVING THE BACKGROUND NOISE ITS TIME TO COMPRESS IT A BIT, AND CUTTING SOME PARTS FROM THE AUDIO.

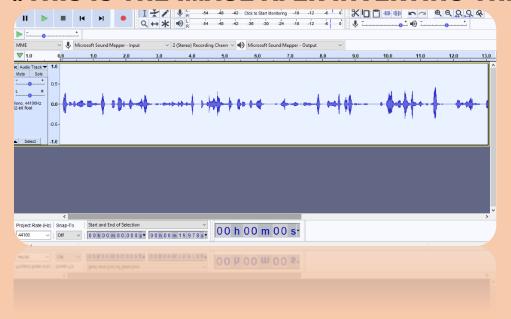


ADDING A FADE IN EFFECT.

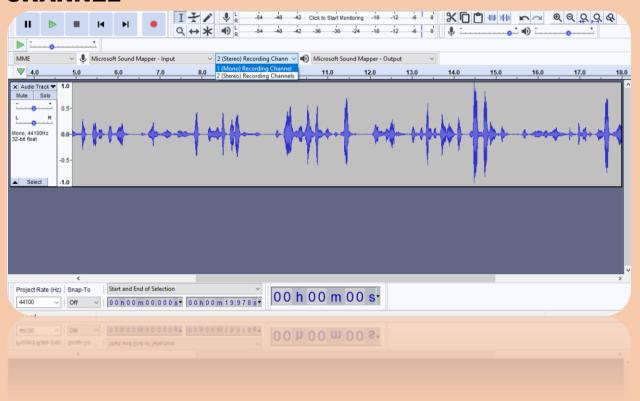


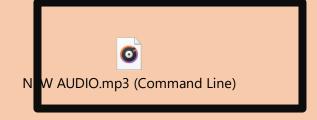
ADDING A FADE OUT EFFECT AN THE END

#THIS IS THE IMAGE AFER INVERTING THE AUDIO



CONVERTING THE AUDIO FROM MONO TO STEREO CHANNEL





THIS IS THE FINAL OUTPUT

REPORT: All the steps performed in the above experiment gives us a vivid view about how authentic audio editing can be done by clipping, converting mono to stereo, adding fade in and fade out effect, Changing the speed, compressing and many other effects. We can either import an audio or record one and also export it in mp3, way and many other formats.