10	POORNIMA
	Zero Lab.
	Intereduction of machine leauning is a subnet of autificial trauning where computer leaun from data to make perediction as decision without explict programming, improve their performance with experience
	Types of Machine Learning: Superwise Learning :> learning from labell data.  Unsuperwise learning:> discover pattern in unlabel data.
	data.
(iii)	Rainfauest learning => learning through trial and
	action and penentilies far regative actions.
	In Machine learning lab we will grûn
	ajent receiver a remard for positive actions and penentilies far negative actions. In Machine learning lab we will goin practical experience in data preparation model building, evaluation and interpreting result.
	package required to run the program si
e e	math, as numpy, pandes, matplotlip, skleasin

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data so	ries rect	18	esse a m eries	ntially rultialis colle	menti etion	hnal	no a Table	mol
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Owhol: 
avay (['?', 'Sunny', 22', '?', '?'], drype=objet

## Experiment -1

Objective in Implement and demostrate the finals algo for finding the most specific hypothesis based on a given dataset of training data sample.

Code 34

impast pumpy as no

df = pd. read excel ('(content/finds\_algo.xlsx')

d = np. alvay [df][:,:-1]

tanget = np. away [df][:,-1]

dif train [c, t]:

for i, val in enumerate (t):

"if val = = "Yes":

spécific hypo 2 c [i]. copy()

byeak;

far i, val in enumerate (c):

if (+[i]== 'Yes');

fay a in range (len (specific - hypo)):

if [val [n] != specific -hypo [n]):

Specific hypo (n] 2 '?)

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	POORNIMA	
	else:	ò
	ereturn specific hypo	\$110
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s tupto array.[[107.6]]

	POORNIMA
	Experiment - 2
3000	
•	Objective-Implement a linear googgession made that
	Objective-Implement a l'ineau suggression mode that predict fahren neit Temperature based on centiquade temperature
<sup>3</sup> .	temperature.
•	Code 34
	Pro-baset.
	in local humby or up
	impaet pandas as po
22	From Skledyn model - selection imposst
	19000 - text - Sp (8+
4-0-194 1-0-194	floom skleaun. tea linear model imposit
	Linear Reguession
	# Data preparation
\$ 9 NG	data 2 y Configurate": [0 24, 10 19, 56, 32 46, 28
	30, 51], 'fahrenheif': [32, 75.2, 50, 66.2, 132.8,
	99.6,114.8,82.4,86,123.8]}
	df 2 pd. Dataframe (data)
1	X = df[['Centigrate']]
	X = df[['Centigrate']] Y > df[['Fahren heit']]
2	
	# Model Teraining
	# Model Training X_train, X_test, Y_train, Y_test = train_test_split(x,
	Y, test_size 20.2, Jandon_state 2 (23)
	lin = Linean Reguession () # Define the Koron requession
	model
	Unfit 2 lin. fit (X-train, Y-train)# Train the model
- k]	Page No

# Ruediction  puediction = lin. puedict ([[42]]) # Now 'lic  defined and trained  puint (puediction).	# 80	e clor +	ion	36	ÿ	¥.				
defined and trained print (prediction).	bued	iction	2 1in	nuec	Wet (	156	277)	#	Now	1 lin
print (prediction)	defe	ned c	md :	their	ed	167	Ė	. 4		
	puint	- Chree	diction	0).	14	1 1	*	ķ,		
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## POORNIMA COLLEGE OF ENGINEERING, JAIPUR Evaluation Report

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<sup>\*</sup> Preparation & Lab record
\*\* Overall Quality of Performance, Knowledge about application of experiment, Technical details of equipments, Process & Theory involved in practical & Viva-voce