**III.OS Module**

import os

**1.system()**--> used to execute os commands

**os.system(“os commands”)**

2.**os.access()-**-> checks the owners access permission of the file

os.access(“filename”,”Permission to be checked”)

os.R\_OK--> read permission

os.W\_OK --> write permission

os.X\_OK --> execute permission

os.F\_OK --> check for file existence

3. **os.walk()** --> list out the path,subdirectories and files of specified path

**var1,var2,var3=os.walk(path)**

**4.os.path.join()**--> joins the path and filename

variable=os.path.join(path,filename)

5.**os.path.getsize() -**-> returns the size of the file in bytes

variable=os.path.getsize(filename)

6.**os.path.getmtime()** -->returns the file modification time in floating value

variable=os.path.getmtime(filename)

7.**os.getcwd()**--> returns the current working directory

variable=os.getcwd()

8.**listdir()-**-> lit the files and directories from the specified path

os.listdir(“path”)

9.**mkdir()-**-> creates the new directory in the current path

os.mkdir(“directoryname”)

10.**rename()**--> changes the file or directory name

os.rename(“oldname”,”newname”)

11.**remove()**--> deletes the file

os.remove(“filename”)

12**.rmdir()**--> removes the directory if it empty

os.rmdir(“directoryname”)

13.**rmtree()--**> deletes the directory even it is not empty

***shutil***.rmtree(dirname)

14.**chdir()**-->change directory

os.chdir(“directoryname”)

**IV. Datetime,time8:36:30 2020**

**student@client:~$**

1**.ctime()**--> converts the float format time into string date time format

variable=time.ctime(floatvalue)

**2.today()**--> returns the current date

variable=datetime.date.today()

**3.now()** --> returns the current date and time

variable=datetime.datetime.now()

**4.strftime()**-->format the date and time into string format

strftime(“attributes”)

%Y --> current year

%B -→Month in text format

%w -->weekday of the week in number

%j--> day of the year

%A--> day of the week in text

%d--> day of the date

**5.timedelta()-**-> used to convert the number into date format which helps to subtract and add the date and time

datetime.timedelta(days=number)

**6.fromtimestamp()**--> from the floating value it returns date and time in date format

datetime.datetime.fromtimestamp(floatvalue)

**matplotlib →** used to visualize the data in graph format

**import matplotlib.pyplot [as p]**

**Methods**

**1.show() →** used to view the graph on the screen

matplotlib.pyplot.show()

**2.xlabel()** → used to specify the x-axis label

p.xlabel(“msg”)

**3.ylabel()** → used to specify the y-axis label

p.ylabel(“msg”)

**4.title()** → used to set the title of the graph

p.title(“msg”)

**5. legend()**-→ used to set the legen

p.legend()

**6.plot()**-→ used to draw the line graph

plot(xvalues,yvalues[,color=”colorname”,linestyle=”dotted|dashed….”,linewidth=size,marker=”o|s….”,markerfacecolor=”colorname”,markersize=number])

**7.bar()** –> used to draw the bar graph

bar(xvalues,yvalues,label=values,width=number,color=[c1,c2,c3...])

**8.pie()→** used to draw the pie chart

pie(value,label=values,color=colors,startangle=value,shadow=True,explode=values,autopct=format,radius=value)

**psutil**

**re**

**mail sending**

**Boto3 package**

**API**

Example scripts