EMERGINGMETHODS

FOREARLYDETECTIONOFFORESTFIRESPROJECTDEVELOPMENT

PHASE

SPRINT2

Date	05.11.2022
TeamID	PNT2022TMID80386
ProjectName	EmergingMethodsForEarlyDetectionOfForest Fires
TeamLeader	G. Saranya
TeamMembers	R. Sineha V. Vasuki N. Suganya

```
import matplotlib.pyplot as
pltimportnumpyasnpimportpandasa
spdimportseabornassns
from sklearn import metrics from sklearn.metrics import
classification_report,confusion_matrix
```

```
importwarningswarnings.filterwarnings(action="ignore")
%matplotlib inline
sns.set_style('darkgrid')pd.set_option("disp
lay.max_rows",1000)pd.set_option("display.ma
x_columns",1000)
```

In[6]: fires=pd.read_csv(r"C:\Users\dhine\Downloads\forestfires.csv\forestfires.csv")
#showthefirst15instanceofdatasetfires.head(15)

Out[6]:		,	XYm	onth	day	FFMC	DMC	DC		ISI tem	p RH	windraiı	narea	
	0		75	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
	1	7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
	2		74	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
	3	8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
	4		86	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
	5	8	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
	6		86	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
	7	8	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
	8		86	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
	9	7	5	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0
	10 7		5	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
	11	7	5	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
	12 6		5	aug	fri	63.5	70.8	665.3	0.8	17.0	72	6.7	0.0	0.0
	13	6	5	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0
0.0	14 6		5	se	р	wed	92.913	3.3699.6	9.2	26	5.4	21	4.5	

In[7]:

fires.shape

(517,13)

Out[7]:

In[8]:

#sho wt he last10 instances ofdat asetf ires.tail(1!)

Out[8]:		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
	502	4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.00
	503	2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.95
	504	4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	49.59
	505	1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	5.80
	506	1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.00
	507	2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
	508	1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
	509	5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	2.17
	510	6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	0.43
	511	8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.00
	512	4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	6.44
	513	2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	54.29
	514	7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	11.16
	515	1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.00
	516	6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.00

In[9]: fires.info()

<class

'pandas.core.frame.DataFrame'>RangeIn dex:517entries,0to516Datacolumns(tota

113columns):

#ColumnNon-NullCountDtype

0 X517non-nullint64

- 1 Y517non-nullint64
- 2 month517non-nullobject
- 3 day517non-nullobject
- 4 FFMC517non-nullfloat645DMC517non-nullfloat64
 - 6 DC517non-nullfloat64
 - 7 ISI517non-nullfloat64
 - 8 temp517non-nullfloat64
 - 9 RH517non-nullint64
 - 10 wind517non-nullfloat64

- 11 rain517non-nullfloat64
- 12 area517non-nullfloat64dtypes:float64(8),int64(3),object(2)memoryusage:52.6+KB

In[10]:
Out[10]:

 ${\it \#generated escriptive statistics of each attribute fires. describe (). T}$

count

X	517.0	4.669246	2.313778	1.0	3.0	4.00	7.00	9.00
Υ	517.0	4.299807	1.229900	2.0	4.0	4.00	5.00	9.00
FFMC	517.0	90.644681	5.5201111	8.7	90.2	91.60	92.90	96.20

DMC517.0110.87234064.0464821.168.6108.30142.40291.30**DC**517.0 547.940039248.0661927.9437.7664.20713.90860.60

fires['area'].values[fires['area'].values>0]=1 #renamingtheareaattributetooutputforclearunderstanding fires=fires.rename(columns={'area':'output'})fires.head(10) 6.5 **ISI** 517.0 9.021663 4.559477 0.0 8.40 10.80 56.10 18.889168 5.806625 2.2 15.5 19.30 22.80 33.30 temp 517.0 517.0 44.288201 16.31746915.0 33.0 42.00 53.00 100.00 wind 517.0 4.017602 1.791653 0.4 2.7 4.00 4.90 9.40 517.0 0.021663 0.295959 0.0 0.0 0.00 0.00 6.40 rain 517.0 12.847292 63.655818 0.0 0.0 0.52 6.57 1090.84 area

In[11]:

Out[11]: XYmonth dayFFMC DMC DC ISItemp RH windrain output

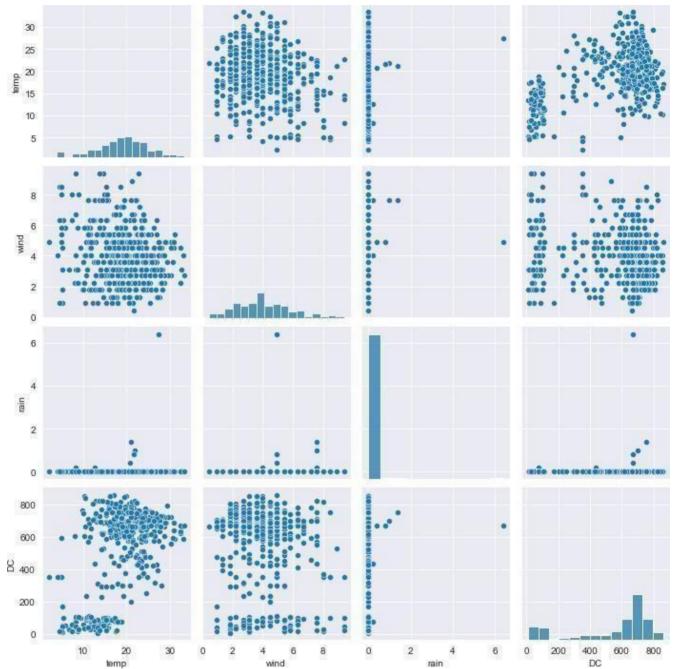
07	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
17	4	octtue	oct	90.6	35.466	9.1	6.7	18.0	33	0.9	0.0	0.0
	4	satmar	frim	90.6	43.768	86.9	6.7	14.6	33	1.3	0.0	0.0
27	6	arsunaı	ugs	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
38	6	un		89.3	51.310	2.2	9.6	11.4	99	1.8	0.0	0.0
48	6	augmo		92.3	85.348	88.014.7		22.2	29	5.4	0.0	0.0
	6	g mon sep 1	tue	92.3	88.949	5.6	8.5	24.1	27	3.1	0.0	0.0
58	6	sepsat		91.514	5.4608.2	210.7		8.0	86	2.2	0.0	0.0
68	6			91.012	9.5692.	6	7.0	13.1	63	5.4	0.0	0.0
78	5			92.5	88.069	98.6	7.1	22.8	40	4.0	0.0	0.0

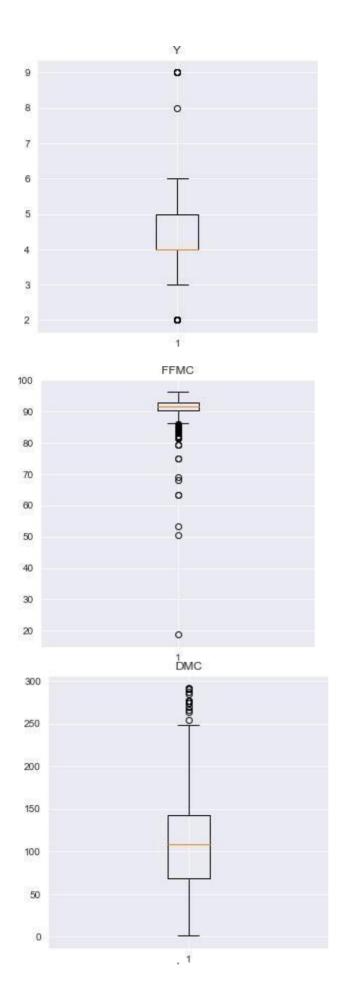
	Υ	FFM	с рмс	DC	ISI	temp	RH	wind		
X	1.000000	0.539548	-0.021039	-0.048384	-0.085916	0.006210	-0.051258	0.085223	0.018798	0.065
	0.539548	1.000000	-0.046308	0.007782	-0.10117	-0.024488	-0.024103	0.062221	-0.02034	0.033
FFMC-(0.021039	-0.046308	1.000000	0.382619	0.330512	0.531805	0.431532	-0.300995	-0.028485	0.056
		0.007782	0.382619	1.000000	0.682192	0.305128	0.469594	0.073795	-0.10534	0.074
DC-(0.085916	-0.101178	0.330512	0.682192	1.000000	0.229154	0.496208	-0.039192	-0.203466	0.035
	0.006210	-0.024488	0.531805	0.305128	0.229154	1.000000	0.394287	-0.132517	0.10682	0.067
temp-(0.051258	-0.024103	0.431532	0.469594	0.496208	0.394287	1.000000	-0.527390	-0.227116	0.069
	0.085223	0.062221	-0.300995	0.073795	-0.03919	-0.132517	-0.527390	1.000000	0.06941	0.099
wind	0.018798	-0.020341	-0.028485	-0.105342	-0.203466	0.106826	-0.227116	0.069410	1.000000	0.061
	0.065387	0.033234	0.056702	0.074790	0.035861	0.067668	0.069491	0.099751	0.06111	1.000
output	0.062491	0.056892	0.073823	0.062672	0.096724	0.035663	0.076047	-0.035587	0.055702	20.025

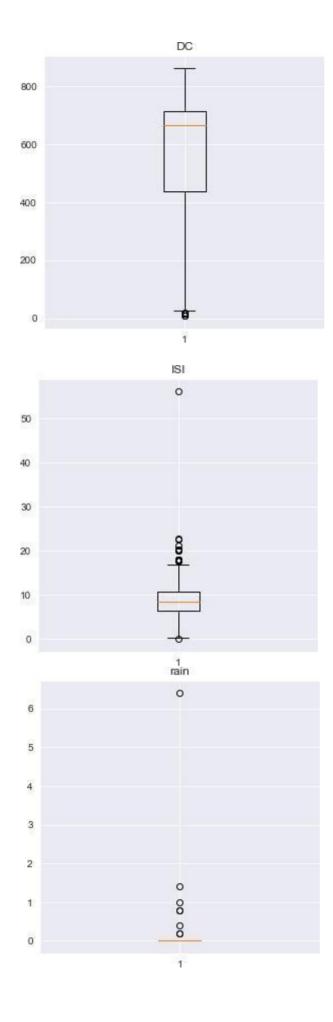
```
In[15]: numerical_feature=fires.describe(include=["int","float"]).columns

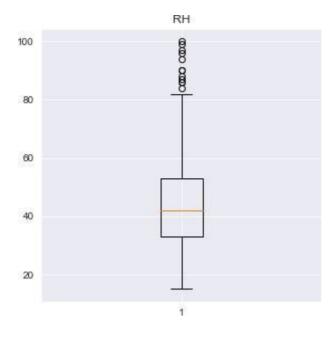
#Printitinlisttype..
print(list(numerical_feature))
['X','Y','FFMC','DMC','DC','ISI','temp','RH','wind','rain','output']
```

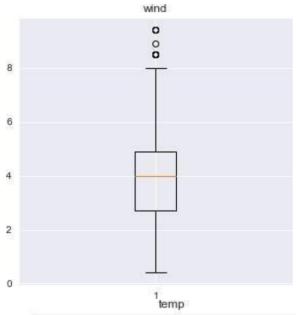
```
In[16]:
    sns.set_style('darkgrid')
    #Findtherelation#plt.subp
    lot(fires)
    sns.pairplot(fires[["temp","wind","
    rain","DC"]])plt.show()
```

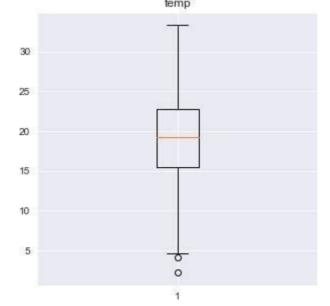


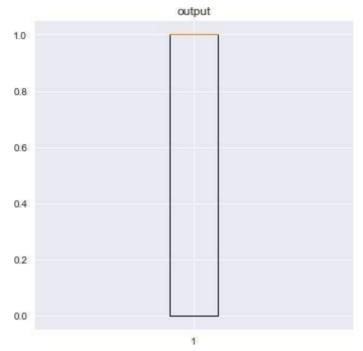












```
In[18]: plt.figure(figsize=(15, 12)) plt.title("Heatmap Relation")
sns.heatmap(fires[numerical_feature].corr(),annot=True,fmt='.2f');
```

- 0.8

- 0.6

- 0.4

- 0.2

- 0.0

- -0.2

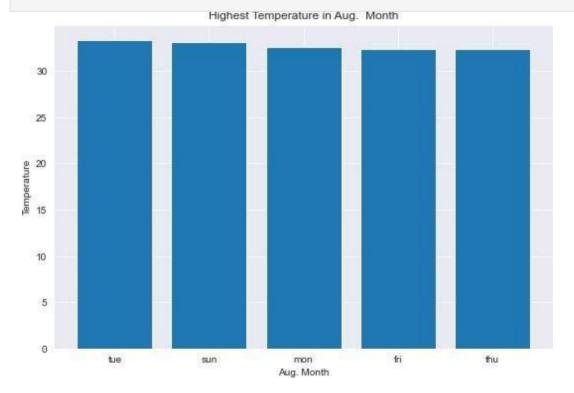
- -0.4

```
Out[19]: monthdayrain
```

499	aug	tue	6.4
509	aug	fri	1.4
243	aug	sun	1.0
500	aug	tue	0.8
501	aug	tue	0.8

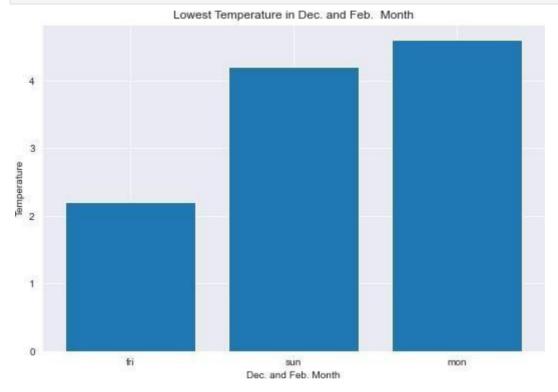
```
In[20]: highest_temp=fires.sort_values(by='temp',ascending=False)[['month','day','temp']].head()plt.fig
ure(figsize=(9,6))
plt.title("HighestTemperatureinAug.Month")plt.bar(highest_temp['day'],highe
st_temp['temp'])
plt.xlabel("Day")plt.xlabel("Aug.M
onth")

plt.ylabel("Temperature")
plt.show()
```



```
In[21]: lowest_temp=fires.sort_values(by='temp',ascending=True)[['month','day','temp']].head()plt.figur
e(figsize=(9,6))
    plt.title("LowestTemperatureinDec.andFeb.Month")plt.bar(lowest_temp['day'],
    lowest_temp['temp'])

plt.xlabel("Day")plt.xlabel("Dec.
andFeb.Month")
plt.ylabel("Temperature")plt.show()
```



In[22]: fires

		ΧY		month	day	FFMC D	МС	DC	ISI	temp		RHwin	draino	utput
0	7		5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
1		7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
2	2 7		4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
3	3	В	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
4	8 4		6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
5	5	В	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
6	8		6	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
7	7	8	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
8	8		6	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
9)	7	5	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0
1	0 7		5	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
11	ı	7	5	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
1	2 6		5	aug	fri	63.5	70.8	665.3	0.8	17.0	72	6.7	0.0	0.0
13	3	6	5	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0
1	4 6		5	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	0.0
15	5	6	5	sep	fri	93.3	141.2	713.9	13.9	22.9	44	5.4	0.0	0.0
1	6 5		5	mar	sat	91.7	35.8	80.8	7.8	15.1	27	5.4	0.0	0.0
17	7	8	5	oct	mon	84.9	32.8	664.2	3.0	16.7	47	4.9	0.0	0.0
1	8 6		4	mar	wed	89.2	27.9	70.8	6.3	15.9	35	4.0	0.0	0.0
19	•	6	4	apr	sat	86.3	27.4	97.1	5.1	9.3	44	4.5	0.0	0.0
2	0 6		4	sep	tue	91.0	129.5	692.6	7.0	18.3	40	2.7	0.0	0.0
21	ı	5	4	sep	mon	91.8	78.5	724.3	9.2	19.1	38	2.7	0.0	0.0
2	2 7		4	jun	sun	94.3	96.3	200.0	56.1	21.0	44	4.5	0.0	0.0
23	3	7	4	aug	sat	90.2	110.9	537.4	6.2	19.5	43	5.8	0.0	0.0
2	4 7		4	aug	sat	93.5	139.4	594.2	20.3	23.7	32	5.8	0.0	0.0
25	5	7	4	aug	sun	91.4	142.4	601.4	10.6	16.3	60	5.4	0.0	0.0
2	6 7		4	sep	fri	92.4	117.9	668.0	12.2	19.0	34	5.8	0.0	0.0
27	7	7	4	sep	mon	90.9	126.5	686.5	7.0	19.4	48	1.3	0.0	0.0

Out[22]:

28 6)	3	sep	sat	93.4	145.4	721.4	8.1	30.2	24	2.7	0.0	0.0
29	5	3	sep	sun	93.5	149.3	728.6	8.1	22.8	39	3.6	0.0	0.0
30 6	<u>,</u>	3	sep	fri	94.3	85.1	692.3	15.9	25.4	24	3.6	0.0	0.0
31	5	3	sep	mon	88.6	91.8	709.9	7.1	11.2	78	7.6	0.0	0.0
32 6	<u>, </u>	3	sep	fri	88.6	69.7	706.8	5.8	20.6	37	1.8	0.0	0.0
33	5	3	sep	sun	91.7	75.6	718.3	7.8	17.7	39	3.6	0.0	0.0
34 6	<u>, </u>	3	sep	mon	91.8	78.5	724.3	9.2	21.2	32	2.7	0.0	0.0
35	5	3	sep	tue	90.3	80.7	730.2	6.3	18.2	62	4.5	0.0	0.0
36	5	3	oct	tue	90.6	35.4	669.1	6.7	21.7	24	4.5		0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
3	7 7	4	oct	fri	90.0	41.5	682.6	8.7	11.3	60	5.4	0.0	0.0
3	8 7	3	oct	sat	90.6	43.7	686.9	6.7	17.8	27	4.0	0.0	0.0
3	9 4	4	mar	tue	88.1	25.7	67.6	3.8	14.1	43	2.7	0.0	0.0
4	0 4	4	jul	tue	79.5	60.6	366.7	1.5	23.3	37	3.1	0.0	0.0
4	1 4	4	aug	sat	90.2	96.9	624.2	8.9	18.4	42	6.7	0.0	0.0
4	2 4	4	aug	tue	94.8	108.3	647.1	17.0	16.6	54	5.4	0.0	0.0
4	3 4	4	sep	sat	92.5	88.0	698.6	7.1	19.6	48	2.7	0.0	0.0
4	4 4	4	sep	wed	90.1	82.9	735.7	6.2	12.9	74	4.9	0.0	0.0
4	5 5	6	sep	wed	94.3	85.1	692.3	15.9	25.9	24	4.0	0.0	0.0
4	6 5	6	sep	mon	90.9	126.5	686.5	7.0	14.7	70	3.6	0.0	0.0
4	7 6	6	jul	mon	94.2	62.3	442.9	11.0	23.0	36	3.1	0.0	0.0
4	8 4	4	mar	mon	87.2	23.9	64.7	4.1	11.8	35	1.8	0.0	0.0
4	9 4	4	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	0.0
5	0 4	4	sep	thu	92.9	137.0	706.4	9.2	20.8	17	1.3	0.0	0.0
5	1 4	3	aug	sun	90.2	99.6	631.2	6.3	21.5	34	2.2	0.0	0.0
5	2 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
5	3 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
5	4 4	3	aug	thu	91.7	114.3	661.3	6.3	17.6	45	3.6	0.0	0.0
5	5 4	3	sep	thu	92.9	137.0	706.4	9.2	27.7	24	2.2	0.0	0.0
5	6 4	3	sep	tue	90.3	80.7	730.2	6.3	17.8	63	4.9	0.0	0.0
5	7 4	3	oct	sun	92.6	46.5	691.8	8.8	13.8	50	2.7	0.0	0.0

58 2	2	feb	mon	84.0	9.3	34.0	2.1	13.9	40	5.4	0.0	0.0
59 2	2	feb	fri	86.6	13.2	43.0	5.3	12.3	51	0.9	0.0	0.0
60 2	2	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	0.0
61 2	2	mar	sun	89.3	51.3	102.2	9.6	5.5	59	6.3	0.0	0.0
62 2	2	aug	thu	93.0	75.3	466.6	7.7	18.8	35	4.9	0.0	0.0
63 2	2	aug	sun	90.2	99.6	631.2	6.3	20.8	33	2.7	0.0	0.0
64 2	2	aug	mon	91.1	103.2	638.8	5.8	23.1	31	3.1	0.0	0.0
65 2	2	aug	thu	91.7	114.3	661.3	6.3	18.6	44	4.5	0.0	0.0
66 2	2	sep	fri	92.4	117.9	668.0	12.2	23.0	37	4.5	0.0	0.0
67 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	5.4	0.0	0.0
68 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	0.0
69 4	5	mar	fri	91.7	33.3	77.5	9.0	17.2	26	4.5	0.0	0.0
70 4	5	mar	fri	91.2	48.3	97.8	12.5	15.8	27	7.6	0.0	0.0
71 4	5	sep	fri	94.3	85.1	692.3	15.9	17.7	37	3.6	0.0	0.0
72 5	4	mar	fri	91.7	33.3	77.5	9.0	15.6	25	6.3	0.0	0.0
73 5	4	aug	tue	88.8	147.3	614.5	9.0	17.3	43	4.5	0.0	0.0
74	54	sep	fri	93.3	141.2	713.9	13.9	27.6	30	1.3	0.0	0.0
75	99	feb	thu	84.2	6.8	26.6	7.7	6.7	79	3.1	0.0	0.0
76	99	feb	fri	86.6	13.2	43.0	5.3	15.7	43	3.1	0.0	0.0
77	13	mar	mon	87.6	52.2	103.8	5.0	8.3	72	3.1	0.0	0.0
78	12	aug	fri	90.1	108.0	529.8	12.5	14.7	66	2.7	0.0	0.0
79	12	aug	tue	91.0	121.2	561.6	7.0	21.6	19	6.7	0.0	0.0
80	12	aug	sun	91.4	142.4	601.4	10.6	19.5	39	6.3	0.0	0.0
81	12	aug	sun	90.2	99.6	631.2	6.3	17.9	44	2.2	0.0	0.0
82	12	aug	tue	94.8	108.3	647.1	17.0	18.6	51	4.5	0.0	0.0
83	12	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	0.0
84	12	aug	thu	91.7	114.3	661.3	6.3	20.2	45	3.6	0.0	0.0
85	12	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	0.0
86	12	sep	thu	92.9	137.0	706.4	9.2	25.4	27	2.2	0.0	0.0
87	12	sep	thu	92.9	137.0	706.4	9.2	22.4	34	2.2	0.0	0.0
88	12	sep	sun	93.5	149.3	728.6	8.1	25.3	36	3.6	0.0	0.0
89	65	mar	sat	91.7	35.8	80.8	7.8	17.4	25	4.9	0.0	0.0
90	65	aug	sat	90.2	96.9	624.2	8.9	14.7	59	5.8	0.0	0.0
91	86	mar	fri	91.7	35.8	80.8	7.8	17.4	24	5.4	0.0	0.0
92	86	aug	sun	92.3	85.3	488.0	14.7	20.8	32	6.3	0.0	0.0

93	86	aug	sun	91.4	142.4	601.4	10.6	18.2	43	4.9	0.0	0.0
94	86	aug	mon	91.1	103.2	638.8	5.8	23.4	22	2.7	0.0	0.0
95	44	sep	sun	89.7	90.0	704.4	4.8	17.8	64	1.3	0.0	0.0
96	34	feb	sat	83.9	8.0	30.2	2.6	12.7	48	1.8	0.0	0.0
97	34	mar	sat	69.0	2.4	15.5	0.7	17.4	24	5.4	0.0	0.0
98	34	aug	sun	91.4	142.4	601.4	10.6	11.6	87	4.5	0.0	0.0
99	34	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
100 3	4	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
101 3	4	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	0.0
102 2	4	aug	tue	94.8	108.3	647.1	17.0	20.1	40	4.0	0.0	0.0
103 2	4	sep	sat	92.5	121.1	674.4	8.6	24.1	29	4.5	0.0	0.0
104 2	4	jan	sat	82.1	3.7	9.3	2.9	5.3	78	3.1	0.0	0.0
105 4	5	mar	fri	85.9	19.5	57.3	2.8	12.7	52	6.3	0.0	0.0
106 4	5	mar	thu	91.4	30.7	74.3	7.5	18.2	29	3.1	0.0	0.0
107 4	5	aug	sun	90.2	99.6	631.2	6.3	21.4	33	3.1	0.0	0.0
108 4	5	sep	sat	92.5	88.0	698.6	7.1	20.3	45	3.1	0.0	0.0
109 4	5	sep	mon	88.6	91.8	709.9	7.1	17.4	56	5.4	0.0	0.0
110 4	4	mar	fri	85.9	19.5	57.3	2.8	13.7	43	5.8		0.0

									RHwindrainoutput					
111 3	4	mar	fri	91.7	33.3	77.5	9.0	18.8	18	4.5	0.0	0.0		
112 3	4	sep	sun	89.7	90.0	704.4	4.8	22.8	39	3.6	0.0	0.0		
113 3	4	sep	mon	91.8	78.5	724.3	9.2	18.9	35	2.7	0.0	0.0		
114 3	4	mar	tue	88.1	25.7	67.6	3.8	15.8	27	7.6	0.0	0.0		
115 3	5	mar	tue	88.1	25.7	67.6	3.8	15.5	27	6.3	0.0	0.0		
116 3	4	mar	sat	91.7	35.8	80.8	7.8	11.6	30	6.3	0.0	0.0		
117 3	4	mar	sat	91.7	35.8	80.8	7.8	15.2	27	4.9	0.0	0.0		
118 3	4	mar	mon	90.1	39.7	86.6	6.2	10.6	30	4.0	0.0	0.0		
119 3	4	aug	thu	93.0	75.3	466.6	7.7	19.6	36	3.1	0.0	0.0		
120 3	4	aug	mon	91.5	145.4	608.2	10.7	10.3	74	2.2	0.0	0.0		
121 3	4	aug	mon	91.5	145.4	608.2	10.7	17.1	43	5.4	0.0	0.0		
122 3	4	sep	sun	92.4	124.1	680.7	8.5	22.5	42	5.4	0.0	0.0		
123 3	4	sep	tue	84.4	73.4	671.9	3.2	17.9	45	3.1	0.0	0.0		
124 3	4	sep	fri	94.3	85.1	692.3	15.9	19.8	50	5.4	0.0	0.0		
125 3	4	oct	sun	92.6	46.5	691.8	8.8	20.6	24	5.4	0.0	0.0		
126 3	5	mar	mon	87.6	52.2	103.8	5.0	9.0	49	2.2	0.0	0.0		
127 3	5	sep	fri	93.5	149.3	728.6	8.1	17.2	43	3.1	0.0	0.0		
128 3	5	oct	wed	91.4	37.9	673.8	5.2	15.9	46	3.6	0.0	0.0		
129 2	5	oct	sun	92.6	46.5	691.8	8.8	15.4	35	0.9	0.0	0.0		
130 4	6	feb	sat	68.2	21.5	87.2	0.8	15.4	40	2.7	0.0	0.0		
1314	6	mar	mon	87.2	23.9	64.7	4.1	14.0	39	3.1	0.0	0.0		
132 4	6	mar	sun	89.3	51.3	102.2	9.6	10.6	46	4.9	0.0	0.0		
133 4	6	sep	thu	93.7	80.9	685.2	17.9	17.6	42	3.1	0.0	0.0		
134 3	5	mar	tue	88.1	25.7	67.6	3.8	14.9	38	2.7	0.0	0.0		
135 3	5	aug	sat	93.5	139.4	594.2	20.3	17.6	52	5.8	0.0	0.0		
136 3	6	sep	sun	92.4	124.1	680.7	8.5	17.2	58	1.3	0.0	0.0		
137 3	6	sep	mon	90.9	126.5	686.5	7.0	15.6	66	3.1	0.0	0.0		
138 9	9	jul	tue	85.8	48.3	313.4	3.9	18.0	42	2.7	0.0	1.0		

)	(Ymon	th	dayF	FMC D	МС	DC	ISI t	emp				
140 2	5	sep	mon	90.9	126.5	686.5	7.0	21.9	39	1.8	0.0	1.0
141 1	2	aug	wed	95.5	99.9	513.3	13.2	23.3	31	4.5	0.0	1.0
142 8	6	aug	fri	90.1	108.0	529.8	12.5	21.2	51	8.9	0.0	1.0
143 1	2	jul	sat	90.0	51.3	296.3	8.7	16.6	53	5.4	0.0	1.0
144 2	5	aug	wed	95.5	99.9	513.3	13.2	23.8	32	5.4	0.0	1.0
145 6	5	aug	thu	95.2	131.7	578.8	10.4	27.4	22	4.0	0.0	1.0
146 5	4	mar	mon	90.1	39.7	86.6	6.2	13.2	40	5.4	0.0	1.0
147 8	3	sep	tue	84.4	73.4	671.9	3.2	24.2	28	3.6	0.0	1.0
148 2	2	aug	tue	94.8	108.3	647.1	17.0	17.4	43	6.7	0.0	1.0
149 8	6	sep	thu	93.7	80.9	685.2	17.9	23.7	25	4.5	0.0	1.0
150 6	5	jun	fri	92.5	56.4	433.3	7.1	23.2	39	5.4	0.0	1.0
151 9	9	jul	sun	90.1	68.6	355.2	7.2	24.8	29	2.2	0.0	1.0
152 3	4	jul	sat	90.1	51.2	424.1	6.2	24.6	43	1.8	0.0	1.0
153 5	4	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
154 1	5	sep	sat	93.4	145.4	721.4	8.1	29.6	27	2.7	0.0	1.0
155 7	4	aug	sun	94.8	108.3	647.1	17.0	16.4	47	1.3	0.0	1.0
156 2	4	sep	sat	93.4	145.4	721.4	8.1	28.6	27	2.2	0.0	1.0
157 2	2	aug	wed	92.1		654.1	9.6	18.4	45	3.6	0.0	1.0
158 2	4	aug	wed	92.1	111.2	654.1	9.6	20.5	35	4.0	0.0	1.0
159 7	4	sep	fri	92.4	117.9		12.2	19.0	34	5.8	0.0	1.0
160 7	4	mar	mon	90.1	39.7	86.6	6.2	16.1	29	3.1	0.0	1.0
161 6 162 6	4	aug	thu	95.2	131.7	578.8 100.4	10.4	20.3	41 31	4.0	0.0	1.0
163 8	3	mar	sat	90.6	50.1 121.1	674.4	7.8 8.6	15.2 17.8	56	8.5 1.8	0.0	1.0
1 64 8	6 5	sep	sat	89.7	90.0	704.4	4.8	17.8	67	2.2	0.0	1.0
165 6	5	mar	thu	84.9	18.2	55.0	3.0	5.3	70	4.5	0.0	1.0
166 6	5	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	1.0
167 6	5	aug	wed	96.0	127.1	570.5	16.5	23.4	33	4.5	0.0	1.0
168 6	5	mar	fri	91.2	48.3	97.8	12.5	14.6	26	9.4	0.0	1.0
169 8	6	aug	thu	95.2	131.7	578.8	10.4	20.7	45	2.2	0.0	1.0
170 5	4	sep	wed	92.9	133.3	699.6	9.2	21.9	35	1.8	0.0	1.0
171 8	6	aug	wed	85.6	90.4	609.6	6.6	17.4	50	4.0	0.0	1.0
172 7	4	aug	sun	91.4	142.4	601.4	10.6	20.1	39	5.4	0.0	1.0
173 4	4	sep	mon	90.9	126.5	686.5	7.0	17.7	39	2.2	0.0	1.0

174 1	4	aug	sat	90.2	96.9	624.2	8.9	14.2	53	1.8	0.0	1.0
175 1	4	aug	sat	90.2	96.9	624.2	8.9	20.3	39	4.9	0.0	1.0
176 6	5	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
177 2	5	aug	sun	90.2	99.6	631.2	6.3	19.2	44	2.7	0.0	1.0
178 2	5	sep	wed	90.1	82.9	735.7	6.2	18.3	45	2.2	0.0	1.0
179 8	6	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	1.0
180 1	3	sep	sun	92.4	124.1	680.7	8.5	23.9	32	6.7	0.0	1.0
181 8	6	oct	mon	84.9	32.8	664.2	3.0	19.1	32	4.0	0.0	1.0
182 5	4	feb	sun	86.8	15.6	48.3	3.9	12.4	53	2.2	0.0	1.0
183 7	4	oct	mon	91.7	48.5	696.1	11.1	16.8	45	4.5	0.0	1.0
184	8 4.9	6 1.0 F	au _! R Hwind !	_	ri mut	93.9	135.7	586.	7 1	5.1	20.8	34
185 2	5	sep	tue		129.5	692.6	7.0	17.6	46	3.1	0.0	1.0
186 8	6	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	1.0
187 1	5	con	man	00.0	126.5	686.5	7.0	21.0	42	2.2	0.0	1.0
188 6	4	sep mar	mon	90.9	41.9	89.4	7.0	13.3	42	0.9	0.0	1.0
									-			
189 7	4	mar	sun	90.7	44.0	92.4	5.5	11.5	60	4.0	0.0	1.0
190 6	5	mar	fri	91.2	48.3	97.8	12.5	11.7	33	4.0	0.0	1.0
191 2	5	aug	thu	95.2	131.7	578.8	10.4	24.2	28	2.7	0.0	1.0
192 2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
193 4	5	sep	wed	92.9	133.3	699.6	9.2	24.3	25	4.0	0.0	1.0
194 2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
4050	-		· ·	02.0	425.7	5067	454	22.5	26	F 4	0.0	1.0
195 2 196 6	5 5	aug apr	fri thu	93.9 81.5	135.7 9.1	586.7 55.2	15.1 2.7	23.5 5.8	36 54	5.4 5.8	0.0	1.0
1300	,	арі	tiid	01.5	3.1	33.2	2.7	5.0	J-1	3.0	0.0	1.0
197 4	5	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	1.0
198 3	4	sep	tue	91.0	129.5	692.6	7.0	13.9	59	6.3	0.0	1.0
199 2	4	sepm	non	63.5	70.8	665.3	0.8	22.6	38	3.6	0.0	1.0
200 1	5	sep	tue	91.0	129.5	692.6	7.0	21.6	33	2.2	0.0	1.0
201 6	5	mar	sun	90.1	37.6	83.7	7.2	12.4	54	3.6	0.0	1.0
202 7	4	feb	sun	83.9	8.7	32.1	2.1	8.8	68	2.2	0.0	1.0
•655				64		6 =0 -		00.5		• =		
203 8 204 5	6	oct	wed	91.4 90.6	37.9 50.1	673.8 100.4	5.2 7.8	20.2 15.1	37 64	2.7 4.0	0.0	1.0 1.0
204 0	O	mar	sat	30.0	3U. I	100.4	1.0	13.1	04	4.0	0.0	1.0

	XYmont	th	dayFl	FMC D	MC	DC	ISI t	emp				
205 4	5	sep	thu	92.9	137.0	706.4	9.2	22.1	34	1.8	0.0	1.0
206 2	2	aug	sat	93.5	139.4	594.2	20.3	22.9	31	7.2	0.0	1.0
207 7	5	sep	tue	91.0	129.5	692.6	7.0	20.7	37	2.2	0.0	1.0
208 6	5	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	1.0
209 8	3	sep	thu	93.7	80.9	685.2	17.9	23.2	26	4.9	0.0	1.0
210 4	4	oct	sat	90.6	43.7	686.9	6.7	18.4	25	3.1	0.0	1.0
211 7	4	aug	sat	93.5	139.4	594.2	20.3	5.1	96	5.8	0.0	1.0
212 7	4	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
213 7	3	marn	non	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
214 4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
215 4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
216 4	4	sep	sun	92.4	124.1	680.7	8.5	16.9	60	1.3	0.0	1.0
217 1	3	sepn	non	88.6	91.8	709.9	7.1	12.4	73	6.3	0.0	1.0
218 4	5	sep	wed	92.9	133.3	699.6	9.2	19.4	19	1.3	0.0	1.0
219 6	5	marm	non	90.1	39.7	86.6	6.2	15.2	27	3.1	0.0	1.0
220 8	6	aug	sun	90.2	99.6	631.2	6.3	16.2	59	3.1	0.0	1.0
221 3	4	sep	fri	93.3	141.2	713.9	13.9	18.6	49	3.6	0.0	1.0

)	(Ymonth	ì	dayFF	MC DI	мс	DC	ISI	temp	R	Hwind	rainout	tput
222 4	3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
223 2	2	jul	fri	88.3	150.3	309.9	6.8	13.4	79	3.6	0.0	1.0
224 7	4	sep	wed	90.1	82.9	735.7	6.2	15.4	57	4.5	0.0	1.0
225 4	4	sep	sun	93.5	149.3	728.6	8.1	22.9	39	4.9	0.0	1.0
226 7	5	oct	mon	91.7	48.5	696.1	11.1	16.1	44	4.0	0.0	1.0
227 8	6	aug	sat	92.2	81.8	480.8	11.9	20.1	34	4.5	0.0	1.0
228 4	6	sep	sun	93.5	149.3	728.6	8.1	28.3	26	3.1	0.0	1.0
229 8	6	aug	sat	92.2	81.8	480.8	11.9	16.4	43	4.0	0.0	1.0
230 4	4	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	1.0
231 1	5	sep	sun	93.5	149.3	728.6	8.1	27.8	27	3.1	0.0	1.0
232 6	4	sep	tue	91.0	129.5	692.6	7.0	18.7	43	2.7	0.0	1.0
233 9	4	sep	tue	84.4	73.4	671.9	3.2	24.3	36	3.1	0.0	1.0
234 4	5	sep	sat	92.5	121.1	674.4	8.6	17.7	25	3.1	0.0	1.0
235 8	6	aug	sun	91.4	142.4	601.4	10.6	19.6	41	5.8	0.0	1.0
236 2	2	sep	sat	92.5	121.1	674.4	8.6	18.2	46	1.8	0.0	1.0
237 1	2	sep	tue	91.0	129.5	692.6	7.0	18.8	40	2.2	0.0	1.0
238 6	5	sep	sat	92.5	121.1	674.4	8.6	25.1	27	4.0	0.0	1.0
239 7	5	apr	sun	81.9	3.0	7.9	3.5	13.4	75	1.8	0.0	0.0
240 6	3	apr	wed	88.0	17.2	43.5	3.8	15.2	51	2.7	0.0	0.0
241 4	4	apr	fri	83.0	23.3	85.3	2.3	16.7	20	3.1	0.0	0.0
242 2	4	aug	sun	94.2	122.3	589.9	12.9	15.4	66	4.0	0.0	1.0
243 7	4	aug	sun	91.8	175.1	700.7	13.8	21.9	73	7.6	1.0	0.0
244 2	4	aug	sun	91.8	175.1	700.7	13.8	22.4	54	7.6	0.0	1.0
245 3	4	aug	sun	91.8	175.1	700.7	13.8	26.8	38	6.3	0.0	1.0
246 5	4	aug	sun	91.8	175.1	700.7	13.8	25.7	39	5.4	0.0	1.0
247 2	4	aug	wed	92.2	91.6	503.6	9.6	20.7	70	2.2	0.0	1.0
248 8	6	aug	wed	93.1	157.3	666.7	13.5	28.7	28	2.7	0.0	0.0

sat 0.0

х	Ymont	h	dayFF	MC DI	мс	DC	ISI	temp	R	Hwind	rainout	put
249 3	4	aug	wed	93.1	157.3	666.7	13.5	21.7	40	0.4	0.0	1.0
250 8	5	aug	wed	93.1	157.3	666.7	13.5	26.8	25	3.1	0.0	1.0
251 8	5	aug	wed	93.1	157.3	666.7	13.5	24.0	36	3.1	0.0	1.0
252 6	5	aug	wed	93.1	157.3	666.7	13.5	22.1	37	3.6	0.0	1.0
253 7	4	aug	thu	91.9	109.2	565.5	8.0	21.4	38	2.7	0.0	1.0
254 6	3	aug	thu	91.6	138.1	621.7	6.3	18.9	41	3.1	0.0	1.0
255 2	5	aug	thu	87.5	77.0	694.8	5.0	22.3	46	4.0	0.0	0.0
256 8	6	aug	sat	94.2	117.2	581.1	11.0	23.9	41	2.2	0.0	1.0
257 4	3	aug	sat	94.2	117.2	581.1	11.0	21.4	44	2.7	0.0	1.0
258 3	4	aug		91.8	170.9 6	92.3 13	5.7	20.6	59	0.9		0.0
259 7	4	aug	sat	91.8	170.9	692.3	13.7	23.7	40	1.8	0.0	1.0
260 2	4	aug	mon	93.6	97.9	542.0	14.4	28.3	32	4.0	0.0	1.0
261 3	4	aug	fri	91.6	112.4	573.0	8.9	11.2	84	7.6	0.0	1.0
262 2	4	aug	fri	91.6	112.4	573.0	8.9	21.4	42	3.1	0.0	1.0
263 6	3	aug	fri	91.1	141.1	629.1	7.1	19.3	39	3.6	0.0	1.0
264 4	4	aug	fri	94.3	167.6	684.4	13.0	21.8	53	3.1	0.0	1.0
265 4	4	aug	tue	93.7	102.2	550.3	14.6	22.1	54	7.6	0.0	1.0
266 6	5	aug	tue	94.3	131.7	607.1	22.7	19.4	55	4.0	0.0	1.0
267 2	2	aug	tue	92.1	152.6	658.2	14.3	23.7	24	3.1	0.0	0.0
268 3	4	aug	tue	92.1	152.6	658.2	14.3	21.0	32	3.1	0.0	0.0
269 4	4	aug	tue	92.1	152.6	658.2	14.3	19.1	53	2.7	0.0	1.0
270 2	2	aug	tue	92.1	152.6	658.2	14.3	21.8	56	3.1	0.0	1.0
271 8	6	aug	tue	92.1	152.6	658.2	14.3	20.1	58	4.5	0.0	1.0
272 2	5	aug	tue	92.1	152.6	658.2	14.3	20.2	47	4.0	0.0	1.0
273 4	6	dec	sun	84.4	27.2	353.5	6.8	4.8	57	8.5	0.0	1.0
274 8	6	dec	wed	84.0	27.8	354.6	5.3	5.1	61	8.0	0.0	1.0
275 4	6	dec	thu	84.6	26.4	352.0	2.0	5.1	61	4.9	0.0	1.0

)	(Ymont	h	dayFl	FMC DI	MC	DC	ISI	temp	R	Hwind	rainou	tput
276 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
277 3	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
278 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
279 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
280 4	6	dec	fri	84.7	26.7	352.6	4.1	2.2	59	4.9	0.0	1.0
281 6	5	dec	tue	85.4	25.4	349.7	2.6	5.1	24	8.5	0.0	1.0
282 6	3	feb	sun	84.9	27.5	353.5	3.4	4.2	51	4.0	0.0	0.0
283 3	4	feb	wed	86.9	6.6	18.7	3.2	8.8	35	3.1	0.0	1.0
284 5	4	feb	fri	85.2	4.9	15.8	6.3	7.5	46	8.0	0.0	1.0
285 2	5	jul	sun	93.9	169.7	411.8	12.3	23.4	40	6.3	0.0	0.0
286 7	6	jul	wed	91.2	183.1	437.7	12.5	12.6	90	7.6	0.2	0.0
287 7	4	jul	sat	91.6	104.2	474.9	9.0	22.1	49	2.7	0.0	0.0
288 7	4	jul	sat	91.6	104.2	474.9	9.0	24.2	32	1.8	0.0	0.0
289 7	4	jul	sat	91.6	104.2	474.9	9.0	24.3	30	1.8	0.0	0.0
290 2	5	jul	sat	91.6	104.2	474.9	9.0	18.7	53	1.8	0.0	0.0
291 9	4	jul	sat	91.6	104.2	474.9	9.0	25.3	39	0.9	0.0	1.0
292 4	5	jul	fri	91.6	100.2	466.3	6.3	22.9	40	1.3	0.0	1.0
293 7	6	jul	tue	93.1	180.4	430.8	11.0	26.9	28	5.4	0.0	1.0
294 8	6	jul	tue	92.3	88.8	440.9	8.5	17.1	67	3.6	0.0	1.0
295 7	5	jun	sun	93.1	180.4	430.8	11.0	22.2	48	1.3	0.0	0.0
296 6	4	jun	sun	90.4	89.5	290.8	6.4	14.3	46	1.8	0.0	1.0
297 8	6	jun	sun	90.4	89.5	290.8	6.4	15.4	45	2.2	0.0	0.0
298 8	6	jun	wed	91.2	147.8	377.2	12.7	19.6	43	4.9	0.0	0.0
299 6	5	jun	sat	53.4	71.0	233.8	0.4	10.6	90	2.7	0.0	0.0
300 6	5	jun	mon	90.4	93.3	298.1	7.5	20.7	25	4.9	0.0	0.0
301 6	5	jun	mon	90.4	93.3	298.1	7.5	19.1	39	5.4	0.0	1.0
302 3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0

sat 0.0 1.0

3046 5 may sat 85.1 28.0 113.8 3.5 11.3 94 4.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2	XYmont	th	dayFF	MC DI	ис	DC	ISI	temp	R	Hwind	rainou	tput
3051 4 sep sun 89.6 84.1 714.3 5.7 19.0 52 2.2 0.0 0.0 3067 4 sep sun 89.6 84.1 714.3 5.7 17.1 53 5.4 0.0 1.0 3073 4 sep sun 89.6 84.1 714.3 5.7 23.8 35 3.6 0.0 1.0 3082 4 sep sun 92.4 105.8 758.1 9.9 16.0 45 1.8 0.0 0.0 3092 4 sep sun 92.4 105.8 758.1 9.9 24.9 27 2.2 0.0 0.0 3107 4 sep sun 92.4 105.8 758.1 9.9 25.3 27 2.7 0.0 0.0 3116 3 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3122 4 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3175 4 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3166 5 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3171 4 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3172 4 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3174 4 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3175 4 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3176 5 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3176 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3176 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3176 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3176 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3176 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3176 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0	303 3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
3067 4 sep sun 89.6 84.1 714.3 5.7 17.1 53 5.4 0.0 1.0 3073 4 sep sun 89.6 84.1 714.3 5.7 23.8 35 3.6 0.0 1.0 3082 4 sep sun 92.4 105.8 758.1 9.9 16.0 45 1.8 0.0 0.0 3092 4 sep sun 92.4 105.8 758.1 9.9 24.9 27 2.2 0.0 0.0 3107 4 sep sun 92.4 105.8 758.1 9.9 25.3 27 2.7 0.0 0.0 3116 3 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3122 4 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3266 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3266 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0	304 6	5	may	sat	85.1	28.0	113.8	3.5	11.3	94	4.9	0.0	0.0
3073	305 1	4	sep	sun	89.6	84.1	714.3	5.7	19.0	52	2.2	0.0	0.0
3082	306 7	4	sep	sun	89.6	84.1	714.3	5.7	17.1	53	5.4	0.0	1.0
3092	307 3	4	sep	sun	89.6	84.1	714.3	5.7	23.8	35	3.6	0.0	1.0
3107 4 sep sun 92.4 105.8 758.1 9.9 25.3 27 2.7 0.0 0.0 3116 3 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3122 4 sep sun 50.4 46.2 706.6 0.4 12.2 78 6.3 0.0 0.0 3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3153 4 sep wed 91.2 134.7 817.5 7.2 18.5 30 2.7 0.0 0.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0	308 2	4	sep	sun	92.4	105.8	758.1	9.9	16.0	45	1.8	0.0	0.0
3116 3 sep sun 92.4 105.8 758.1 9.9 24.8 28 1.8 0.0 1.0 3122 4 sep sun 50.4 46.2 706.6 0.4 12.2 78 6.3 0.0 0.0 3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 91.2 134.7 817.5 7.2 18.5 30 2.7 0.0 0.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.4 96.2 739.4 8.6 19.2 24 4.9 0.0 1.0 3186 5 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 0.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3266 5 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0	309 2	4	sep	sun	92.4	105.8	758.1	9.9	24.9	27	2.2	0.0	0.0
3122 4 sep sun 50.4 46.2 706.6 0.4 12.2 78 6.3 0.0 0.0 3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 91.2 134.7 817.5 7.2 18.5 30 2.7 0.0 0.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5	310 7	4	sep	sun	92.4	105.8	758.1	9.9	25.3	27	2.7	0.0	0.0
3136 5 sep wed 92.6 115.4 777.1 8.8 24.3 27 4.9 0.0 0.0 3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 91.2 134.7 817.5 7.2 18.5 30 2.7 0.0 0.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3246 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0	311 6	3	sep	sun	92.4	105.8	758.1	9.9	24.8	28	1.8	0.0	1.0
3144 4 sep wed 92.6 115.4 777.1 8.8 19.7 41 1.8 0.0 1.0 3153 4 sep wed 91.2 134.7 817.5 7.2 18.5 30 2.7 0.0 0.0 3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.4 96.2 739.4 8.6 19.2 24 4.9 0.0 1.0 3186 5 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5	312 2	4	sep	sun	50.4	46.2	706.6	0.4	12.2	78	6.3	0.0	0.0
3153	313 6	5	sep	wed	92.6	115.4	777.1	8.8	24.3	27	4.9	0.0	0.0
3164 5 sep thu 92.4 96.2 739.4 8.6 18.6 24 5.8 0.0 0.0 3174 4 sep thu 92.4 96.2 739.4 8.6 19.2 24 4.9 0.0 1.0 3186 5 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep sth 92.2 102.3 751.5	314 4	4	sep	wed	92.6	115.4	777.1	8.8	19.7	41	1.8	0.0	1.0
3174 4 sep thu 92.4 96.2 739.4 8.6 19.2 24 4.9 0.0 1.0 3186 5 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep std 92.2 102.3 751.5	315 3	4	sep	wed	91.2	134.7	817.5	7.2	18.5	30	2.7	0.0	0.0
3186 5 sep thu 92.8 119.0 783.5 7.5 21.6 27 2.2 0.0 0.0 0.0 3195 4 sep thu 92.8 119.0 783.5 7.5 21.6 28 6.3 0.0 1.0 3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	316 4	5	sep	thu	92.4	96.2	739.4	8.6	18.6	24	5.8	0.0	0.0
3195 4	317 4	4	sep	thu	92.4	96.2	739.4	8.6	19.2	24	4.9	0.0	1.0
3206 3 sep thu 92.8 119.0 783.5 7.5 18.9 34 7.2 0.0 1.0 3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5	318 6	5	sep	thu	92.8	119.0	783.5	7.5	21.6	27	2.2	0.0	0.0
3211 4 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0	319 5	4	sep	thu	92.8	119.0	783.5	7.5	21.6	28	6.3	0.0	1.0
3226 5 sep thu 92.8 119.0 783.5 7.5 16.8 28 4.0 0.0 1.0 3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	320 6	3	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2	0.0	1.0
3233 5 sep thu 90.7 136.9 822.8 6.8 12.9 39 2.7 0.0 1.0 3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0	321 1	4	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
3246 5 sep thu 88.1 53.3 726.9 5.4 13.7 56 1.8 0.0 1.0 3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	322 6	5	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
3251 4 sep sat 92.2 102.3 751.5 8.4 24.2 27 3.1 0.0 0.0 3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0	323 3	5	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7	0.0	1.0
3265 4 sep sat 92.2 102.3 751.5 8.4 24.1 27 3.1 0.0 0.0 3276 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0	324 6	5	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8	0.0	1.0
327 6 5 sep sat 92.2 102.3 751.5 8.4 21.2 32 2.2 0.0 0.0	325 1	4	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	0.0
	326 5	4	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1	0.0	0.0
328 6 5 sep sat 92.2 102.3 751.5 8.4 19.7 35 1.8 0.0 0.0	327 6	5	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2	0.0	0.0
	328 6	5	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8	0.0	0.0
329 4 3 sep sat 92.2 102.3 751.5 8.4 23.5 27 4.0 0.0 1.0	329 4	3	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0	0.0	1.0

X	Ymont	h	dayFF	MC DI	мс	DC	ISI	temp	R	Hwind	rainou	tput
330 3	3	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	1.0
331 7	4	sep	sat	91.2	124.4	795.3	8.5	21.5	28	4.5	0.0	1.0
332 4	4	sep		91.2	124.4 7	795.3	8.5	17.1	41	2.2		
333 1	4	sep	mon	92.1	87.7	721.1	9.5	18.1	54	3.1	0.0	1.0
334 2	3	sep	mon	91.6	108.4	764.0	6.2	18.0	51	5.4	0.0	0.0
335 4	3	sep	mon	91.6	108.4	764.0	6.2	9.8	86	1.8	0.0	0.0
336 7	4	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	0.0
337 6	3	sep	mon	91.6	108.4	764.0	6.2	23.0	34	2.2	0.0	1.0
338 8	6	sep	mon	91.6	108.4	764.0	6.2	22.7	35	2.2	0.0	1.0
339 2	4	sep	mon	91.6	108.4	764.0	6.2	20.4	41	1.8	0.0	1.0
340 2	5	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	1.0
341 8	6	sep	mon	91.9	111.7	770.3	6.5	15.7	51	2.2	0.0	0.0
342 6	3	sep	mon	91.5	130.1	807.1	7.5	20.6	37	1.8	0.0	0.0
343 8	6	sep	mon	91.5	130.1	807.1	7.5	15.9	51	4.5	0.0	1.0
344 6	3	sep	mon	91.5	130.1	807.1	7.5	12.2	66	4.9	0.0	1.0
345 2	2	sep	mon	91.5	130.1	807.1	7.5	16.8	43	3.1	0.0	1.0
346 1	4	sep	mon	91.5	130.1	807.1	7.5	21.3	35	2.2	0.0	1.0
347 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	0.0
348 3	4	sep	fri	92.1	99.0	745.3	9.6	17.4	57	4.5	0.0	0.0
349 5	4	sep	fri	92.1	99.0	745.3	9.6	12.8	64	3.6	0.0	1.0
350 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	1.0
351 4	4	sep	fri	92.1	99.0	745.3	9.6	15.4	53	6.3	0.0	1.0
352 7	4	sep	fri	92.1	99.0	745.3	9.6	20.6	43	3.6	0.0	1.0
353 7	4	sep	fri	92.1	99.0	745.3	9.6	19.8	47	2.7	0.0	1.0
354 7	4	sep	fri	92.1	99.0	745.3	9.6	18.7	50	2.2	0.0	1.0
355 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
356 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0

sat 0.0 1.0

	XYmontl	า	dayFF	MC DI	мс	DC	ISI	temp	F	Hwind	rainou	tput
357 6	3	sep	fri	92.5	122.0	789.7	10.2	15.9	55	3.6	0.0	0.0
358 6	3	sep	fri	92.5	122.0	789.7	10.2	19.7	39	2.7	0.0	0.0
359 1	4	sep	fri	92.5	122.0	789.7	10.2	21.1	39	2.2	0.0	1.0
360 6	5	sep	fri	92.5	122.0	789.7	10.2	18.4	42	2.2	0.0	1.0
361 4	3	sep	fri	92.5	122.0	789.7	10.2	17.3	45	4.0	0.0	1.0
362 7	4	sep	fri	88.2	55.2	732.3	11.6	15.2	64	3.1	0.0	1.0
363 4	3	sep	tue	91.9	111.7	770.3	6.5	15.9	53	2.2	0.0	1.0
364 6	5	sep	tue	91.9	111.7	770.3	6.5	21.1	35	2.7	0.0	1.0
365 6	5	sep	tue	91.9	111.7	770.3	6.5	19.6	45	3.1	0.0	1.0
366 4	5	sep	tue	91.1	132.3	812.1	12.5	15.9	38	5.4	0.0	1.0
367 4	5	sep	tue	91.1	132.3	812.1	12.5	16.4	27	3.6	0.0	0.0
368 6	5	sep	sat	91.2	94.3	744.4	8.4	16.8	47	4.9	0.0	1.0
369 4	5	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	0.0

	month		DIVIC	DC		
ΧY		day FFMC			ISI	temp
		RHwwinidn	drairnaion	utpout	tput	

370	7 4	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	1.0
371	3 4	jul	wed	91.9	133.6	520.5	8.0	14.2	58	4.0	0.0	0.0
372	4 5	aug	sun	92.0	203.2	664.5	8.1	10.4	75	0.9	0.0	0.0
373	5 4	aug	thu	94.8	222.4	698.6	13.9	20.3	42	2.7	0.0	0.0
374	6 5	sep	fri	90.3	290.0	855.3	7.4	10.3	78	4.0	0.0	1.0
375	6 5	sep	sat	91.2	94.3	744.4	8.4	15.4	57	4.9	0.0	1.0
376	8 6	aug	mon	92.1	207.0	672.6	8.2	21.1	54	2.2	0.0	0.0
377	2 2	aug	sat	93.7	231.1	715.1	8.4	21.9	42	2.2	0.0	1.0
378	6 5	mar	thu	90.9	18.9	30.6	8.0	8.7	51	5.8	0.0	0.0
379	4 5	jan	sun	18.7	1.1	171.4	0.0	5.2	100	0.9	0.0	0.0
380	5 4	jul	wed	93.7	101.3	458.8	11.9	19.3	39	7.2	0.0	1.0
381	8 6	aug	thu	90.7	194.1	643.0	6.8	16.2	63	2.7	0.0	1.0
382	8 6	aug	wed	95.2	217.7	690.0	18.0	28.2	29	1.8	0.0	1.0
383	9 6	aug	thu	91.6	248.4	753.8	6.3	20.5	58	2.7	0.0	1.0
384	8 4	aug	sat	91.6	273.8	819.1	7.7	21.3	44	4.5	0.0	1.0
385	2 4	aug	sun	91.6	181.3	613.0	7.6	20.9	50	2.2	0.0	1.0
386	3 4	sep	sun	90.5	96.7	750.5	11.4	20.6	55	5.4	0.0	1.0
387	5 5	mar	thu	90.9	18.9	30.6	8.0	11.6	48	5.4	0.0	0.0
388	6 4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	1.0
389	7 4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	0.0
390	7 4	feb	mon	84.7	9.5	58.3	4.1	7.5	71	6.3	0.0	1.0
391	8 6	sep	fri	91.1	91.3	738.1	7.2	20.7	46	2.7	0.0	1.0
392	13	sep	sun	91.0	276.3	825.1	7.1	21.9	43	4.0	0.0	1.0
393	2 4	mar	tue	93.4	15.0	25.6	11.4	15.2	19	7.6	0.0	0.0
394	6 5	feb	mon	84.1	4.6	46.7	2.2	5.3	68	1.8	0.0	0.0
395	4 5	feb	sun	85.0	9.0	56.9	3.5	10.1	62	1.8	0.0	1.0

sat 1.0

396	4 3	sep	sun	90.5	96.7	750.5	11.4	20.4	55	4.9	0.0	1.0
397	5 6	aug	sun	91.6	181.3	613.0	7.6	24.3	33	3.6	0.0	1.0
398	12	aug	sat	93.7	231.1	715.1	8.4	25.9	32	3.1	0.0	0.0
399	9 5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	0.0
400	9 5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	1.0
401	3 4	sep	thu	91.1	88.2	731.7	8.3	22.8	46	4.0	0.0	1.0
402	99	aug	fri	94.8	227.0	706.7	12.0	25.0	36	4.0	0.0	0.0
403	8 6	aug	thu	90.7	194.1	643.0	6.8	21.3	41	3.6	0.0	0.0
404	2 4	sep	wed	87.9	84.8	725.1	3.7	21.8	34	2.2	0.0	1.0
405	2 2	aug	tue	94.6	212.1	680.9	9.5	27.9	27	2.2	0.0	0.0
406	65	sep		87.1	1291.386	50.6	4.0	17.0	67	4.9	0.0	
407 4	5	feb	sat	84.7	8.2	55.0	2.9	14.2	46	4.0	0.0	0.0
408 4	3	sep	fri	90.3	290.0	855.3	7.4	19.9	44	3.1	0.0	1.0
409 1	4	jul	tue	92.3	96.2	450.2	12.1	23.4	31	5.4	0.0	0.0
410 6	3	feb	fri	84.1	7.3	52.8	2.7	14.7	42	2.7	0.0	0.0
411 7	4	feb	fri	84.6	3.2	43.6	3.3	8.2	53	9.4	0.0	1.0
412 9	4	jul	mon	92.3	92.1	442.1	9.8	22.8	27	4.5	0.0	1.0
413 7	5	aug	sat	93.7	231.1	715.1	8.4	26.4	33	3.6	0.0	0.0
414 5	4	aug	sun	93.6	235.1	723.1	10.1	24.1	50	4.0	0.0	0.0
415 8	6	aug	thu	94.8	222.4	698.6	13.9	27.5	27	4.9	0.0	1.0
416 6	3	jul	tue	92.7	164.1	575.8	8.9	26.3	39	3.1	0.0	1.0
417 6	5	mar	wed	93.4	17.3	28.3	9.9	13.8	24	5.8	0.0	0.0
418 2	4	aug	sun	92.0	203.2	664.5	8.1	24.9	42	5.4	0.0	1.0
419 2	5	aug	sun	91.6	181.3	613.0	7.6	24.8	36	4.0	0.0	1.0
420 8	8	aug	wed	91.7	191.4	635.9	7.8	26.2	36	4.5	0.0	1.0
421 2	4	aug	wed	95.2	217.7	690.0	18.0	30.8	19	4.5	0.0	0.0
422 8	6	jul	sun	88.9	263.1	795.9	5.2	29.3	27	3.6	0.0	1.0

423 1	3	sep	sat	91.2	94.3	744.4	8.4	22.3	48	4.0	0.0	1.0
424 8	6	aug	sat	93.7	231.1	715.1	8.4	26.9	31	3.6	0.0	1.0
425 2	2	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
426 8	6	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
427 2	4	aug	mon	92.1	207.0	672.6	8.2	27.9	33	2.2	0.0	1.0
428 1	3	aug	thu	94.8	222.4	698.6	13.9	26.2	34	5.8	0.0	0.0
429 3	4	aug	sun	91.6	181.3	613.0	7.6	24.6	44	4.0	0.0	1.0
430 7	4	sep	thu	89.7	287.2	849.3	6.8	19.4	45	3.6	0.0	0.0
431 1	3	aug	sat	92.1	178.0	605.3	9.6	23.3	40	4.0	0.0	1.0
432 8	6	aug	thu	94.8	222.4	698.6	13.9	23.9	38	6.7	0.0	0.0
433 2	4	aug	sun	93.6	235.1	723.1	10.1	20.9	66	4.9	0.0	1.0
434 1	4	aug	fri	90.6	269.8	811.2	5.5	22.2	45	3.6	0.0	0.0
435 2	5	jul	sat	90.8	84.7	376.6	5.6	23.8	51	1.8	0.0	0.0
436 8	6	aug	mon	92.1	207.0	672.6	8.2	26.8	35	1.3	0.0	1.0
437 8	6	aug	sat	89.4	253.6	768.4	9.7	14.2	73	2.7	0.0	0.0
438 2	5	aug	sat	93.7	231.1	715.1	8.4	23.6	53	4.0	0.0	1.0
439 1	3	sep	fri	91.1	91.3	738.1	7.2	19.1	46	2.2	0.0	1.0
440 5	4	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	0.0
441 8	6	aug	mon	92.1	207.0	672.6	8.2	25.5	29	1.8	0.0	1.0
442 6	5	apr	mon	87.9	24.9	41.6	3.7	10.9	64	3.1	0.0	1.0
443 1	2	jul	fri	90.7	80.9	368.3	16.8	14.8	78	8.0	0.0	0.0
Х	Y m	onth	•	FMC D		DC onutpou	ISI itput	temp				
444	2 5	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	1.0
445	5 5	aug	sun	94.0	47.9	100.7	10.7	17.3	80	4.5	0.0	0.0
446	6 5	aug	sun	92.0	203.2	664.5	8.1	19.1	70	2.2	0.0	0.0
447	3 4	mar	wed	93.4	17.3	28.3	9.9	8.9	35	8.0	0.0	0.0

448	7 4	sep	wed	89.7	284.9	844.0	10.1	10.5	77	4.0	0.0	0.0
449	7 4	aug	sun	91.6	181.3	613.0	7.6	19.3	61	4.9	0.0	0.0
450	4 5	aug	wed	95.2	217.7	690.0	18.0	23.4	49	5.4	0.0	1.0
451	1 4	aug	fri	90.5	196.8	649.9	16.3	11.8	88	4.9	0.0	1.0
452	7 4	aug	mon	91.5	238.2	730.6	7.5	17.7	65	4.0	0.0	0.0
453	4 5	aug	thu	89.4	266.2	803.3	5.6	17.4	54	3.1	0.0	0.0
454	3 4	aug	thu	91.6	248.4	753.8	6.3	16.8	56	3.1	0.0	0.0
455	3 4	jul	mon	94.6	160.0	567.2	16.7	17.9	48	2.7	0.0	0.0
456	2 4	aug	thu	91.6	248.4	753.8	6.3	16.6	59	2.7	0.0	0.0
457	14	aug	wed	91.7	191.4	635.9	7.8	19.9	50	4.0	0.0	1.0
458	8 6	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	1.0
459	7 4	aug	sat	91.6	273.8	819.1	7.7	15.5	72	8.0	0.0	1.0
460	2 5	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	0.0
461	8 6	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	0.0
462	14	sep	sun	91.0	276.3	825.1	7.1	14.5	76	7.6	0.0	1.0
463	6 5	feb	tue	75.1	4.4	16.2	1.9	4.6	82	6.3	0.0	1.0
464	6 4	feb	tue	75.1	4.4	16.2	1.9	5.1	77	5.4	0.0	1.0
465	2 2	feb	sat	79.5	3.6	15.3	1.8	4.6	59	0.9	0.0	1.0
466	6 5	mar	mon	87.2	15.1	36.9	7.1	10.2	45	5.8	0.0	1.0
467	3 4	mar	wed	90.2	18.5	41.1	7.3	11.2	41	5.4	0.0	1.0
468	6 5	mar	thu	91.3	20.6	43.5	8.5	13.3	27	3.6	0.0	1.0
469	6 3	apr	sun	91.0	14.6	25.6	12.3	13.7	33	9.4	0.0	1.0
470	5 4	apr	sun	91.0	14.6	25.6	12.3	17.6	27	5.8	0.0	0.0
471	4 3	may	fri	89.6	25.4	73.7	5.7	18.0	40	4.0	0.0	1.0
472	8 3	jun	mon	88.2	96.2	229.0	4.7	14.3	79	4.0	0.0	1.0
473	9 4	jun	sat	90.5	61.1	252.6	9.4	24.5	50	3.1	0.0	1.0
474	4 3	jun	thu	93.0	103.8	316.7	10.8	26.4	35	2.7	0.0	1.0

475	5 2	2 5	jun	thu	93.7	121.7	350.2	18.0	22.7	40	9.4	0.0	1.0
476	5 4	4 3	jul	thu	93.5	85.3	395.0	9.9	27.2	28	1.3	0.0	1.0
477	7 4	4 3	jul	sun	93.7	101.3	423.4	14.7	26.1	45	4.0	0.0	1.0
478	3	7 4	jul	sun	93.7	101.3	423.4	14.7	18.2	82	4.5	0.0	1.0
479	•	7 4	jul	mon	89.2	103.9	431.6	6.4	22.6	57	4.9	0.0	1.0
48	3 0 9		jul month	thu dayF	93.2 FMC	2114.456 DMC	50.0 DC	9.5 ISI	30.2 temp	25	4.5 RHwin	0.0 draino	utput
	481 4	3	jul	thu	93.2	114.4	560.0	9.5	30.2	22	4.9	0.0	0.0
	482 3	4	aug	sun	94.9	130.3	587.1	14.1	23.4	40	5.8	0.0	1.0
	483 8	6	aug	sun	94.9	130.3	587.1	14.1	31.0	27	5.4	0.0	0.0
	484 2	5	aug	sun	94.9	130.3	587.1	14.1	33.1	25	4.0	0.0	1.0
	485 2	4	aug	mon	95.0	135.5	596.3	21.3	30.6	28	3.6	0.0	1.0
	486 5	4	aug	tue	95.1	141.3	605.8	17.7	24.1	43	6.3	0.0	1.0
	487 5	4	aug	tue	95.1	141.3	605.8	17.7	26.4	34	3.6	0.0	1.0
	488 4	4	aug	tue	95.1	141.3	605.8	17.7	19.4	71	7.6	0.0	1.0
	489 4	4	aug	wed	95.1	141.3	605.8	17.7	20.6	58	1.3	0.0	0.0
	490 4	4	aug	wed	95.1	141.3	605.8	17.7	28.7	33	4.0	0.0	0.0
	491 4	4	aug	thu	95.8	152.0	624.1	13.8	32.4	21	4.5	0.0	0.0
	492 1	3	aug	fri	95.9	158.0	633.6	11.3	32.4	27	2.2	0.0	0.0
	493 1	3	aug	fri	95.9	158.0	633.6	11.3	27.5	29	4.5	0.0	1.0
	494 6	6	aug	sat	96.0	164.0	643.0	14.0	30.8	30	4.9	0.0	1.0
	495 6	6	aug	mon	96.2	175.5	661.8	16.8	23.9	42	2.2	0.0	0.0
	496 4	5	aug	mon	96.2	175.5	661.8	16.8	32.6	26	3.1	0.0	1.0
	497 3	4	aug	tue	96.1	181.1	671.2	14.3	32.3	27	2.2	0.0	1.0
	498 6	5	aug	tue	96.1	181.1	671.2	14.3	33.3	26	2.7	0.0	1.0
	499 7	5	aug	tue	96.1	181.1	671.2	14.3	27.3	63	4.9	6.4	1.0
	500 8	6	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	0.0
	501 7	5	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	0.0
	502 4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.0

503 2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.0
504 4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	1.0
505 1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	1.0
506 1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.0
507 2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
508 1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
509 5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	1.0
510 6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	1.0
511 8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.0
512 4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	1.0
513 2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	1.0
514 7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	1.0
515 1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.0
516 63		nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.0

In[]:

In[2]: #Definetheparameters/argumentsforImageDataGeneratorclass train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,rotation_range=180,zoom_range

test_datagen=ImageDataGenerator(rescale=1./255)

In[3]: #ApplyingImageDataGeneratorfunctionalitytotrainset

 $x_train=train_datagen.flow_from_directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\ target_size=(128,128),batch_size=32,class_mode='binary')$

Found436imagesbelongingto2classes.

In[4]: #ApplyingImageDataGeneratorfunctionalitytotestset

 $x_test=test_datagen.flow_from_directory(r'C:\Users\dhine\Downloads\archive\Dataset\teetarget_size=(128,128),batch_size=32,class_mode='binary')$

Found121imagesbelongingto2 classes.

In[5]: #importmodelbuildinglibraries

 ${\it \#Tode fine Linear initial is at ion import Sequential } {\it from}$

keras.models import

Sequential#ToaddlayersimportDen

sefromkeras.layersimport Dense

#TocreateConvolutionkernelimport Convolution2D

from keras.layers import

Convolution2D#import

Maxpooling layer

from keras.layers import Max Po

oling2D#importflattenlayerfromkeras.layer

simport Flatten import

In[7]:

#initializingthemodelmodel=Sequential()

In[8]:

#add convolutional layer

 $model.add (Convolution 2D(32,(3,3),input_shape = (128,128,3),activation = 'relu')) \#add$

maxpoolinglayer model.add(MaxPooling2D(pool_size=(2,2)))

#addflattenlayermodel.add(Flatten())

In[9]:

#add

hidden

In[10]:

In[11]:

 $\label{ladd} layer model. add (Dense (150, activation = 'relu')) \# addout put layer model. add (Dense (1, activation = 'relu')) \# addout put layer model. add (Dense (1, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (Dense (150, activation = 'relu')) \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addout put layer model. Add (150, activation = 'relu') \# addou$

ation='sigmoid'))

 $\# configure the learning process \verb|model.compile| (loss='binary_crossentropy', optimizer="adam", metrics=["accuracy"])$

#Trainingthemodelmodel.fit generator(x train, steps per epoch=14, epochs=10, validation data=x test, validation st

```
Epoch1/10
         loss:1.3686-val accuracy: 0.5950Epoch2/10
         loss:0.2423-val accuracy: 0.8926Epoch3/10
         loss:0.1323-val accuracy: 0.9669Epoch4/10
         loss:0.1082-val accuracy: 0.9669Epoch5/10
         14/14[==============================]-129s10s/step-loss:0.1918-accuracy:0.9151-va
         I_loss:0.1145-val_accuracy:0.9669Epoch6/10
         _loss:0.1030-val_accuracy: 0.9669
    Epoch14/14[==========================7/10
                                                                            ====1
         - loss: 0.1756 - accuracy:0.9312
-88s 6s/step
                                   - val loss:
                                             0.0831-val_accuracy:0.97528/10
         Epoch
    - 86s
                                        6s/step -loss: 0.1564-accuracy: 0.9404-val_
                                                                       loss:
                  ====]Epoch
                                   0.1073-val_accuracy:0.96699/10
         ===]-77s6s/step-loss:0.1480-accuracy:0.9427-val_
                                          loss:0.0754-val_accuracy:0.983510/10
                                          ====]
         14/14
                                        - 81s 6s/step
                                                  - loss: 0.1641
                                                               - accuracy:0.9289
          val loss:
                    0.0601-val_accuracy:0.9835
         <keras.callbacks.History at 0x2546507bf10>
 Out[11]:In[12]:
              model.save("forest1.h5")
         #importload modelfromkeras.modelfromkeras.mode
 In[13]:
         lsimportload_model#importimageclass from keras
         from tensorflow.keras.preprocessingimport image
         #importnumpyimport
         numpyasnp
         #importcv2import
```

In[15]:#loadthesavedmodelmodel= load_model("forest1.h5")

In[16]:	$img=image.load_img(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\test_set\withfire\skynx=image.img_to_array(img) \ res=cv2.resize(x, dsize=(128, 128), interpolation=cv2.INTER_CUBIC)\#expandtheimageshape \ x=np.expand_dims(res,axis=0)$
In[17]:	pred=model.predict(x)
	1/1[===================================
	pred