In [246]:

```
Basic_Definitions = {
'Title': ['Title of Graph figure'],
'subtitle': ['Description / comments for graph figure can be added'],
'legend': ['Which describes elements of graph '],
'color': ['Colour of plots/lines/curves that we are using'],
'types of lines': ['solid, dashed,dotted, dash-dotted'],
'xlim': ['X axis limit a(number) to b(number)'],
'ylim': ['Y axis limit a(number) to b(number)']
}
import pandas as pd
Write_DF = pd.DataFrame(Basic_Definitions)
Write_DF.head()
```

Out[246]:

	Title	subtitle	legend	color	types of lines	xlim	ylim
0	Title of Graph figure	Description / comments for graph figure can be	Which describes elements of graph	Colour of plots/lines/curves that we are using	solid, dashed,dotted, dash-dotted	X axis limit a(number) to b(number)	Y axis limit a(number) to b(number)

In [247]:

```
Basic_Graph_Types = {
    'Bar plot':['Rectangualar bars proportional to x,y'],
    'histogram':['Similar to bar graph with x axis-ranges'],
    'pie plot':['Circular graph with percent/ Fraction data-set'],
    'scatter plot':['Represents relations between two sets of data']
}
Write_DF = pd.DataFrame(Basic_Graph_Types)
Write_DF.head()
```

Out[247]:

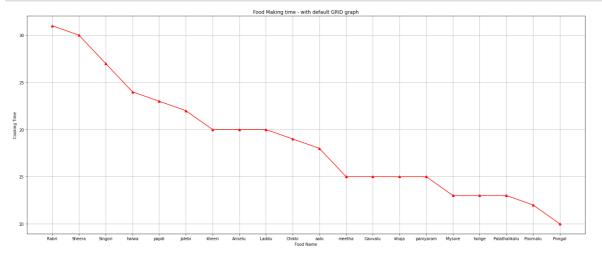
	Bar plot	histogram	pie plot	scatter plot
0	Rectangualar bars proportional to x,y	Similar to bar graph with x axis-ranges	Circular graph with percent/ Fraction data-set	Represents relations between two sets of data

In [248]:

	name	prep_time	cook_time	state	region	cost
0	Rabri	10	31	Uttar Pradesh	North	15
1	Sheera	11	30	Maharashtra	West	15
2	Singori	13	27	Uttarakhand	North	25
3	halwa	15	24	Uttar Pradesh	North	24
4	papdi	16	23	Maharashtra	West	33
5	jalebi	15	22	Odisha	East	25
6	kheeri	15	20	Odisha	East	25
7	Ariselu	15	20	Andhra Pradesh	South	35
8	Laddu	18	20	Andhra Pradesh	South	24
9	Chikki	19	19	Maharashtra	West	25
10	aalo	20	18	Karnataka	South	24
11	meetha	22	15	Telangana	South	35
12	Gavvalu	23	15	Andhra Pradesh	South	24
13	khaja	25	15	Andhra Pradesh	South	25
14	paniyaram	26	15	Kerala	South	34
15	Mysore	26	13	Karnataka	South	25
16	holige	29	13	Karnataka	South	34
17	Palathalikalu	29	13	Andhra Pradesh	South	25
18	Poornalu	30	12	Andhra Pradesh	South	22
19	Pongal	31	10	Tamil Nadu	South	23

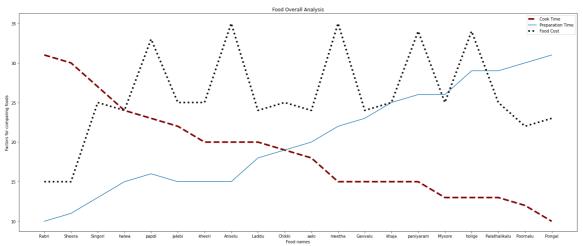
In [249]:

```
import matplotlib.pyplot as plt
x= df.name
y= df.cook_time
plt.figure(figsize=(25,10))
my_plot = plt.plot(x,y)
plt.xlabel("Food Name")
plt.ylabel("Cooking Time")
plt.title('Food Making time - with default GRID graph')
plt.grid(True)
plt.setp(my_plot,color='red',marker='^')
plt.show()
```



In [250]:

```
#Multi line Graph
plt.figure(figsize=(25,10))
plt.plot(df.name,df.cook_time , label = "Cook Time",c='maroon', ls=('dashed') , lw =4)
plt.plot(df.name,df.prep_time, label = "Preparation Time")
plt.plot(df.name,df.cost, label = "Food Cost",c='black', ls=('dotted'), lw =4)
plt.xlabel("Food names")
plt.ylabel("Factors for comparing foods")
plt.title('Food Overall Analysis')
plt.legend()
plt.show()
```

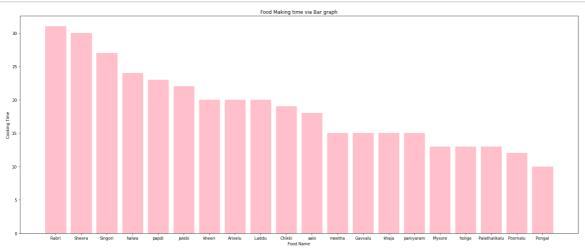


In [251]:

```
plt.figure(figsize=(25,10))

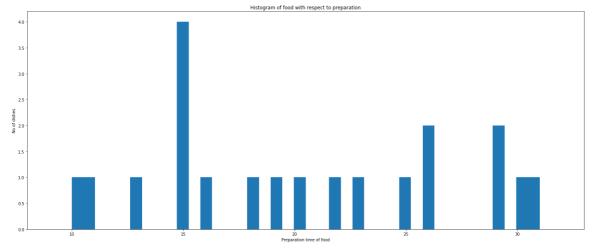
myplot = plt.bar(x,y)

plt.xlabel("Food Name")
plt.ylabel("Cooking Time")
plt.title('Food Making time via Bar graph')
plt.setp(myplot,color='pink')
plt.show()
```



In [252]:

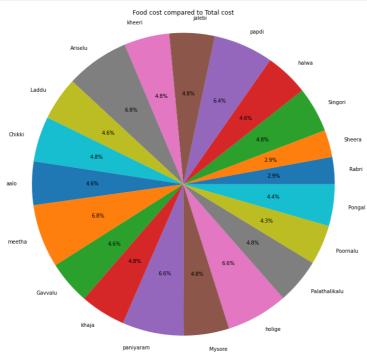
```
#Histogram Graph
plt.figure(figsize=(25,10))
Preparation_time= df.prep_time
plt.hist(Preparation_time,40)
plt.xlabel("Preparation time of food")
plt.xlim(8,33) #Limiting X axis
plt.ylabel("No of dishes")
plt.title('Histogram of food with respect to preparation')
plt.show()
```



In [253]:

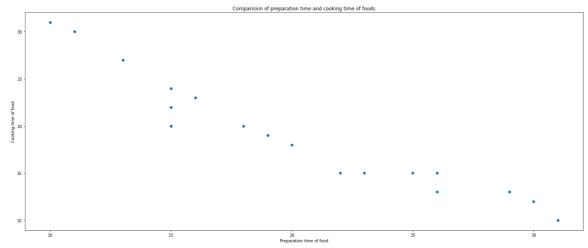
```
#Pie Graph
fig = plt.figure
fig(figsize=(20,12))

plt.pie(df.cost, labels = df.name,autopct='%1.1f%%')
plt.title('Food cost compared to Total cost')
plt.axis('equal')
plt.show()
```



In [254]:

```
#Scatter Plot Graph
plt.figure(figsize=(25,10))
region = df.region
Cook_time= df.cook_time
plt.scatter(df.prep_time,df.cook_time )
plt.xlabel("Preparation time of food")
plt.ylabel("Cooking time of food")
plt.title('Comparision of preparation time and cooking time of foods')
plt.show()
```



In []:			

```
In [ ]:
```

```
In [ ]:
```