Skill test 1

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Question: 3. Write a Python program to implement Data wrangling functions as below.

a. Join two dataframes using join() function. (10 mark)

b. Using the melt function to reshape the DataFrame format from wide to long. (10 mark)

Program:

```
import numpy as np
import pandas as np
Df=pd.DataFrame({'Name':['Molly','Polly','Dolly'],
'Age1':['18','19','20'],'Gender1':['M','M','F'],'Score1':['99','98','100']})
Df1=pd.DataFrame({'Name':['Hector','Sam','Gideon'],'Age2':['22','23','24'],'Gender2':['F','M','M']
,'Score2':['100','97','96']})
print(Df)
print(Df1)
Df0=pd.DataFrame({'Dummy Column':[True,False,False]})
DfJ=Df.join(Df0)
print(DfJ)
merged df=pd.merge(Df,Df1,on='Name')
print(merged_df)
reshape df=pd.melt(merged df,id vars='Name',value vars=['Age1','Age2','Gender1','Gender2',
'Score1','Score2'])
print(reshape df)
```

