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graph TD
    Start([Start]) --> ImportSys[/import sys/]
    ImportSys --> ImportPygame[/import pygame/]
    ImportPygame --> ImportTime[/import time/]
    ImportTime --> ImportRandom[/import random/]
    ImportRandom --> PygameInit[pygame.init()]
    PygameInit --> ScreenSetup[screen =  
pygame.display.set_mode(  
(1150, 500) )]
    ScreenSetup --> QuitPrint[print(pygame.QUIT)]
    QuitPrint --> WhiteDef[white =  
pygame.Color(255,  
255, 255)]
    WhiteDef --> BlackDef[black =  
pygame.Color(0, 0,  
0)]
    BlackDef --> FontDef[font =  
pygame.font.Font("Subscribe.TTF", 20)]
    FontDef --> TeacherClass["class Teachers  
• Variables: name, goodie,  
cost, image, x, y  
• No functions defined"]
    TeacherClass --> TeachersList["define list of teachers  
using Teacher class"]
    TeachersList --> CommandsDict["define dictionary  
commands of  
commands"]
    CommandsDict --> PricesDict["define dictionary  
prices of shop prices"]
    PricesDict --> SaleList["define list for sale of  
shop items"]
    SaleList --> SidebarDict["define dictionary  
sidebar for the  
sidebar dimensions"]
    SidebarDict --> PickerClass["class Picker  
• Variables: y=80, index=0  
• draw_self() draws the picker  
• next() moves the picker down 25  
and increases index by 1  
• prev() moves picker up 25 and  
decreases index by 1  
• next() and prev() only run if picker  
is between y=80 and y=355"]
    PickerClass --> PickerInit[picker =  
font.render(">", True,  
white)]
    PickerInit --> PickerObj[picker1 = Picker()]
    PickerObj --> TearsSet[tears = 500]
    TearsSet --> InventoryList["define blank list  
inventory for bought  
items"]
    InventoryList --> BuyDict["define dictionary  
buying function for"]

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graph TD
    Start([open_shop()]) --> CreateText[create text object asking player what they want to buy]
    CreateText --> DrawText[draw text object on screen]
    DrawText --> DefineY[define y=80 for initial text height for items]
    DefineY --> LoopStart[for key, value in prices.items()]
    LoopStart --> Render[shop_list = font.render(f'{key}: {value}', True, white)]
    Render --> DrawShopList[draw shop_list on screen at (730, y)]
    DrawShopList --> YInc[y += 25]
    YInc --> DownArrow{down arrow key is pushed?}
    DownArrow -- yes --> WaitDown[pygame.time.wait(900)]
    WaitDown --> Next[picker1.next()]
    Next --> DownArrow
    DownArrow -- no --> UpArrow{up arrow key is pushed?}
    UpArrow -- yes --> WaitUp[pygame.time.wait(900)]
    WaitUp --> Prev[picker1.prev()]
    Prev --> UpArrow
    UpArrow -- no --> DrawPicker[picker1.draw_self()]
    DrawPicker --> End([return])
  
```

Note: most predefined functions referenced in the main loop are similarly structured to the open_shop function.



