

Python

```
import time
```

```
import random
```

#Lists of pools of values that can be randomly selected
from to generate the prompt

```
words=['a', 'abandon', 'ability', 'able', 'abortion',  
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```
'year', 'yell', 'yellow', 'yes', 'yesterday', 'yet',  
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```

```
sentences=[  
    "The quick brown fox jumps over the lazy dog.",  
    "A stitch in time saves nine.",  
    "How much wood would a woodchuck chuck if a woodchuck  
could chuck wood?",  
    "Practice makes perfect.",  
    "She sells seashells by the seashore.",  
    "Never put off until tomorrow what you can do today.",  
    "There is no substitute for hard work.",  
    "The early bird catches the worm.",  
    "A penny saved is a penny earned.",  
    "Don't count your chickens before they hatch.",  
    "One man's trash is another man's treasure.",  
    "All that glitters is not gold.",  
    "A bird in the hand is worth two in the bush.",  
    "Rome wasn't built in a day.",  
    "The pen is mightier than the sword.",  
    "Look before you leap.",  
    "Actions speak louder than words.",  
    "Don't judge a book by its cover.",  
    "The best things in life are free.",  
    "A fool and his money are soon parted.",  
    "Better late than never.",  
    "Birds of a feather flock together.",  
    "Curiosity killed the cat.",  
    "Don't bite the hand that feeds you.",  
    "A picture is worth a thousand words.",  
    "A chain is only as strong as its weakest link.",  
    "The grass is always greener on the other side.",  
    "You can't have your cake and eat it too.",
```

"An apple a day keeps the doctor away.",
"Honesty is the best policy.",
"Laughter is the best medicine.",
"The truth will set you free.",
"Two heads are better than one.",
"Good things come to those who wait.",
"You can't teach an old dog new tricks.",
"A bird doesn't sing because it has an answer, it sings
because it has a song.",
"People who live in glass houses shouldn't throw
stones.",
"Better to have loved and lost, than to have never
loved at all.",
"When life gives you lemons, make lemonade.",
"The only constant in life is change.",
"What doesn't kill you makes you stronger.",
"To err is human, to forgive, divine.",
"A smooth sea never made a skillful sailor.",
"It's not the years in your life that count, it's the
life in your years.",
"No pain, no gain.",
"It takes a village to raise a child.",
"A house divided against itself cannot stand.",
"If at first you don't succeed, try, try again.",
"Time heals all wounds.",
"Where there's smoke, there's fire.",
"A leopard can't change its spots.",
"Out of sight, out of mind.",
"The only thing we have to fear is fear itself.",
"You can lead a horse to water, but you can't make it
drink.",
"Beauty is in the eye of the beholder.",
"Don't put all your eggs in one basket.",

```

    "The early bird catches the worm.",
    "Hope for the best, but prepare for the worst.",
    "Knowledge is power.",
    "You can't take it with you."]
numbers=['1', '2', '3', '4', '5', '6', '7', '8', '9', '0']
specialcharacters=['!', '@', '#', '$', '%', '^', '&', '*',
'(', ')', '-', '=', '_', '+', '[', ']', '{', '}', '|', ';',
':', '"', "'", ',', '.', '<', '>', '/', '?']

```

```

#Initializes variables to be used later

```

```

promptlist=[]
prompt=""

```

```

#Function to generate the prompt based on the selected mode
(selects random items from the list of the selected mode
and stores them as both a list and string)

```

```

def getprompt(mode):
    global prompt
    while True:
        numitems=input("Enter the number of "+mode+" you
would like in the prompt: ")
        if numitems.isnumeric():
            break
        else:
            print("Please enter a valid number.",'\n')
    for i in range(int(numitems)):
        promptlist.append(random.choice(modelist))
    prompt=' '.join(promptlist)
    time.sleep(0.5)

```

```

#Introduction

```

```

print("Welcome to the typing test. Test your WPM!",'\n')
time.sleep(0.5)

```

```

print("Fullscreen is recommended for the best
experience.",'\n')
time.sleep(0.5)

#Gets the user's input for the mode
while True:
    print("Modes: words, sentences, numbers, special
characters")
    mode=input("Please select a mode: ").lower()
    if(mode=="words" or mode=="sentences" or
mode=="numbers" or mode=="special characters"):
        print()
        break
    else:
        print("Please enter a valid mode.",'\n')

#Determines the mode based on the user's input
if(mode=="words"):
    modelist=words
elif(mode=="sentences"):
    modelist=sentences
elif(mode=="numbers"):
    modelist=numbers
elif(mode=="special characters"):
    modelist=specialcharacters

#Executes the function to generate the prompt
getprompt(mode)

#Prints the prompt
print()
print("The prompt is:",'\n')
print(prompt,'\n')

```

```
promptlist=prompt.split(" ")
time.sleep(0.5)

#Prints the instructions
input("When you are ready, press enter and then start
typing as fast as you can. When you are done, press
enter.")
print()

#Starts the timer
start=time.time()

#Gets the input of the user typing the prompt
typing=(input("Go!: "))

#Ends the timer
end=time.time()
print()

#If the mode is words, the input is not case sensitive
(putting capital letters instead of lowercase letters does
not lower accuracy)
if(mode=="words"):
    typing=typing.lower()

#Converts the user's input into a list to be used later
inputlist=typing.split()

#Invalidates the results and ends the program if the user
enters a different amount of words than the prompt
if((len(inputlist))!=(len(promptlist))):
    print("Test invalid. Try again and aim for higher
accuracy.")
```

```

quit()

#Determines the amount of wrong words the user typed
wrongcount=0
for i in range(len(promptlist)):
    if(inputlist[i]!=promptlist[i]):
        wrongcount+=1

#Calculates the time the user took
timetaken=round(end-start,2)

#Calculates the wpm based on the average word being 5
characters
wpm=round((len(typing))/(5*timetaken/60))
print("WPM:",wpm)

#Calculates the accuracy percentage based on how many words
the user got wrong
accuracy=(1-(round(wrongcount/len(promptlist),2)))*100
print("Accuracy:",str(accuracy)+"%", '\n')

#Closing
time.sleep(0.5)
print("Thank you for taking the typing test. Press Run to
take another one!")

#Other sources
"""
Used website of most common words in English language to
create a list of words for the word mode (made some edits
to the list):
https://www.ef.edu/english-resources/english-vocabulary/top-3000-words/

```

Used AI to create a list of sentences for the sentences mode:

<https://chatgpt.com/>

"" "