```python
text="this is a simple question return word with maximum number of characters"

# write a program that print the word with maimum number of characters

words=text.split(" ")

def get_length(w):

    return len(w)

print(max(words,key=get_length))

```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\hp\OneDrive\Desktop\Pythonworks> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.e
/quest1.py"
characters
PS C:\Users\hp\OneDrive\Desktop\Pythonworks>

```python
# given a string

# write a program to print most frequent word

text = "this is a simple python program that print most recursive word . this program is simple"

words=text.split(" ")

def get_count(w):

    return words.count(w)

frequency_word=max(words,key=get_count)

print(frequency_word)
```

```
characters
PS C:\Users\hp\OneDrive\Desktop\Pythonworks> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe "c:/User
/quest2.py"
this
PS C:\Users\hp\OneDrive\Desktop\Pythonworks>
```

```python
 1   # given  a string print the folllowing: # a.The count of alphabets# b.The count of spaces# c.The count of special characters# d.The count of numbers
 2
 3   text = "On June 5th, 2024, we will celebrate @ our annual event: 'Tech Innovations 2024!'"
 4   alpha_count=0
 5   space_count=0
 6   spec_char_count=0
 7   number_count=0
 8
 9   for char in text:
10
11       if char.isalpha():
12
13           alpha_count+=1
14
15       elif char.isspace():
16
17           space_count+=1
18
19       elif char.isdigit():
20
21           number_count+=1
22
23       else:
24
25           spec_char_count+=1
26
27
28   print("Count of alphabets :",alpha_count)
29   print("Count of number:",number_count)
30   print("Count of spaces:",space_count)
31   print("Count of special characters:",spec_char_count)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Count of alphabets : 52
Count of number: 9
Count of spaces: 13
Count of special characters: 7
PS C:\Users\hp\OneDrive\Desktop\Pythonworks>
```

```python
# write a program to check the given list is a palindrome

lst=[1,2,3,2,1]

if lst==lst[::-1]:

    print("The given list is palindrome")

else:

    print("The given list is not palindrome")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Count of special characters: 7
PS C:\Users\hp\OneDrive\Desktop\Pythonworks> & C:/Users/hp/AppData/Local/Programs/Python/Python312/python.exe "c:/User
/quest4.py"
The given list is palindrome
PS C:\Users\hp\OneDrive\Desktop\Pythonworks>
```