```python
#palindrome or not
number=int(input("enter a number: "))
reverse_number=0
temp=number

while temp>0:
           digit=temp%10
           reverse_number=reverse_number*10+digit
           temp=temp//10

if number==reverse_number:
    print(f" {number} is palindrome")
else:
    print(f" {number} is not palindrome")
```

```
enter a number: 77
 77 is palindrome
```

```python
#palindrome or not
number=input("enter a number:")
if str(number)==str(number)[::-1]:
    print("palindrome")
else:
    print("not palindrome")
```

```
enter a number:55
palindrome
```

```python
colors = ['red', 'blue', 'green', 'blue']
print(colors.index('blue'))
print(colors.count('blue'))
```

```
1
2
```

```python
import random
responses = [
"It is certain",
"Reply hazy, try again",
"Don’t count on it",
"Yes, definitely",
"Ask again later",
"My reply is no",
"Outlook not so good",
"Signs point to yes"
]
print("Ask the Magic 8 Ball a question: ")
input()
print(random.choice(responses))
```

```
Ask the Magic 8 Ball a question:
yes
Don’t count on it

text = "hello"
print(text[1])

e

data = (1, 2, 3)
print(data[0])

1

original = [1, 2, 3]
copy = original
copy[0] = 99
print(original)

[99, 2, 3]

copy = original.copy()
copy[0] = 42
print(original)

[99, 2, 3]

import pprint
data = {"name": "Alice", "subjects": ["Math", "Science"], "grades":
{"Math": "A",
"Science": "B"}}
pprint.pprint(data)

{'grades': {'Math': 'A', 'Science': 'B'},
 'name': 'Alice',
 'subjects': ['Math', 'Science']}

phone_book = {
"John": "555-1234",
"Alice": "555-5678",
"Bob": "555-8765"
}
print(phone_book["Alice"])

555-5678
```