Palindromic number

```
number=int(input("Enter the 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(number,"is a palindromic number")
else:
    print(number,"is not a palindromic number")
```

```
Enter the number:343
343 is a palindromic number
```

```
num=str(input("Enter a number :"))
if str(number)== str(number)[::-1]:
  print("is a palindromic ")
else:
  print("is not a palindromic")
```

```
Enter a number :madam
is a palindromic
```

```
def ispalindrome(x: int):
    if x < 0:
        return False  # Changed false to False
    reversed_half = 0
    while x > reversed_half:
        digit = x % 10
        reversed_half = reversed_half * 10 + digit  # Corrected the
typo and logic here
        x //= 10
    return x == reversed_half
    print(ispalindrome(121))
    print(ispalindrome(-121))
    print(ispalindrome(10))
```

Preety print

```
import pprint
data={"name":"Alice","subject": ["maths","science"],"grade":
{"maths":"A","science":"B"}}
pprint.pprint(data)
```

```
{'grade': {'maths': 'A', 'science': 'B'},
 'name': 'Alice',
 'subject': ['maths', 'science']}
```

Magic 8 ball extention

```
import random

responses = [
        "It is certain.",
        "It is decidedly so.",
        "Without a doubt.",
        "Yes, definitely.",
        "You may rely on it.",
        "As I see it, yes.",
        "Most likely.",
        "Outlook good.",
        "Yes.",
        "Signs point to yes.",
        "Reply hazy, try again.",
        "Ask again later.",
        "Better not tell you now.",
        "Cannot predict now.",
        "Concentrate and ask again.",
        "Don't count on it.",
        "My reply is no.",
        "My sources say no.",
        "Outlook not so good.",
        "Very doubtful."
    ]
print("ask the magic 8 ball a question:")
print(random.choice(responses))



ask the magic 8 ball a question:
Very doubtful.
```