```
programming dictionary = {
  "Bug": "An error in a program that prevents the program from running as expected.",
  "Function": "A piece of code that you can easily call over and over again.",
}
print(programming dictionary["Function"])
programming dictionary
     A piece of code that you can easily call over and over again.
     {'Bug': 'An error in a program that prevents the program from running as expected.',
      'Function': 'A piece of code that you can easily call over and over again.'}
for key in programming_dictionary:
 print(key)
 print(programming_dictionary[key])
     Bug
     An error in a program that prevents the program from running as expected.
     Function
     A piece of code that you can easily call over and over again.
Coding excersice
student_scores = {
  "Harry": 81,
  "Ron": 78,
  "Hermione": 99,
  "Draco": 74,
  "Neville": 62,
}
student grades ={}
for key in student scores:
 score = student scores[key]
 if student scores[key]>90:
    student grades[key] = "Outstanding"
 elif score>80:
   student grades[key]="Exceeds Expectations"
 elif score>70:
   student grades[key]="Acceptable"
 else:
    student grades[key]="Troll"
print(student grades)
     {'Harry': 'Exceeds Expectations', 'Ron': 'Acceptable', 'Hermione': 'Outstanding', 'Dracc
```

Nesting

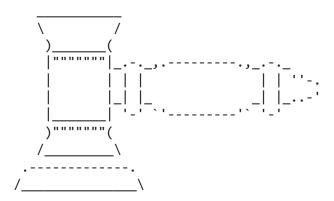
```
capitals ={
    "France": "Paris",
    "Spain": "Madrid",
    "Colombia": "Bogotá",
    "Unites States": "Washington",
    "Germany": "Berlin",
}
#Nesting a list in a dictionary
travel log={
    "France":["Paris","Lille","Dijon"],
    "Germany":["Berlin", "Frankfurt", "Hamburg"]
}
a=["A", "B", ["C", "D"]]
#Nesting a dictionary in a dictionary
travel_log2={
    "France":{"cities visited":["Paris","Lille","Dijon"]},
    "Germany":{"cities_visited":["Berlin","Frankfurt","Hamburg"], "total_visists":5},
}
#Nesting a dictionary in a list
travel_log =[
    "country": "France",
    "visists":12,
    "cities":["Paris","Lille","Dijon"],
     },
    {
      "country": "Germany",
      "visists":5,
      "cities":["Berlin", "Frankfurt", "Hamburg"],
     },
    1
def add_new_country(country, visits, cities):
  travel log.append({"country":country,"visits":visits,"cities":cities})
  return travel log
add_new_country("Russia", 2, ["Moscow", "Saint Petersburg"])
print(travel_log)
```

```
[{'country': 'France', 'visists': 12, 'cities': ['Paris', 'Lille', 'Dijon']}, {'country
```

Proyecto del dia

```
logo = '''
                           )"""""(
. . .
print(logo)
a=input("What's your name?: ")
b=int(input("What's your bid?: $"))
10=[]
11=[]
12=[]
c=True
while c==True:
 d={a:b}
 10.append(d)
  e=input('Are there any other bidders? Type yes or no. ')
  if e == 'no':
    c=False
 elif e=='yes':
    a=input("What's your name?: ")
    b=int(input("What's your bid?: $"))
  else:
    print("Follow instructions!")
for i in 10:
 for j in i:
    11.append(i[j])
    12.append(j)
    bb=max(11)
    aa=12[11.index(bb)]
print(f"The winner is {aa} with a bid of ${max(11)}")
```

С→



What's your name?: Salad What's your bid?: \$33

Are there any other bidders? Type yes or no. yes

What's your name?: Salad2 What's your bid?: \$333

Are there any other bidders? Type yes or no. no

The winner is Salad2 with a bid of \$333

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