In [ ]:
```
# QUESTION- 1
# Answer- C
```

In [35]:
```
def func (a,b):
    return b if a==0 else func(b%a,a)
print(func(30,75))
```

```
15
```

In [ ]:
```
# QUESTION- 2
# Answer- B
```

In [8]:
```
numbers = (4,7,19,2,89,45,72,22)
sorted_numbers=sorted(numbers)
even = lambda a:a%2==0
even_numbers=filter(even,sorted_numbers)
print (type(even_numbers))
```

```
<class 'filter'>
```

In [ ]:
```
# QUESTION- 3
# Answer is LIST
```

In [ ]:
```
# QUESTION- 4
# Answer- D (Error)
```

In [9]:
```
set1 = {14,3,55}
set2 = {82,49,62}
set3 = {99,22,17}
print(len(set1+set2+set3))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_6844\1282947524.py in <module>
      2 set2 = {82,49,62}
      3 set3 = {99,22,17}
----> 4 print(len(set1+set2+set3))

TypeError: unsupported operand type(s) for +: 'set' and 'set'
```

In [ ]:
```
# QUESTION- 5
# Answer is "try & except"
```

In [55]:
```
a= [10,20,30]
try:
    print(a[0])
    print(a[1])
    print(a[3])
except:
    print ('not in range')
```

```
10
20
not in range
```

In [ ]:
```
# QUESTION- 6
# ANSWER- C
```

In [ ]:
```
import datetime
```

In [ ]:
```
# QUESTION- 7
# Answer- c
```

In [10]:
```
print(4**3 +(7+5)**(1+1))
```

```
208
```

In [ ]:
```
# QUESTION- 8
#  Answer - C (both a & b)
# strptime & strftime
```

In [ ]:
```
# QUESTION- 9
# Answer- B (python tuple is immutable in nature)
```

In [56]:
```
# QUESTION- 10
#  Answer- range()
```

In [57]:
```
# QUESTION- 11
# Answer - B (show function)
```

In [58]:
```
# QUESTION- 12
# Answer- (Both A and B) (pickle is used to Serializing & De-serializing pyhto
```

In [59]:
```
# QUESTION- 13
# Answer- B ( "dump()method is used to convert python object for writing data
```

In [60]:
```
# QUESTION- 14
#  Answer- A ("load() is the method used to unpickling data from a binary file
```

In [61]:
```
# QUESTION- 15
# Answer- D
```

In [ ]:
```
# QUESTION- 16
# Answer- D (A and B both)
```

In [11]:
```
# A
captains = {"Enterprise":"Picard","Voyager":"Janeway","Defiant":"Sisko"}
for ship,captain in captains.items():
    print (ship,captain)
```

```
Enterprise Picard
Voyager Janeway
Defiant Sisko
```

In [12]:
```
# B
captains = {"Enterprise":"Picard","Voyager":"Janeway","Defiant":"Sisko"}
for ship in captains:
    print(ship,captains[ship])
```

```
Enterprise Picard
Voyager Janeway
Defiant Sisko
```

In [ ]:
```
# QUESTION- 17
# Answer- D
```

In [16]:
```
captains={}
type(captains)
```

Out[16]:
```
dict
```

In [ ]:
```
# QUESTION- 18
# Answer- C
```

In [19]:
```
captains={"Enterprise":"Picard", "Voyager":"Janeway","Defiant":"Sisko","Discov
print(captains)
```

```
{'Enterprise': 'Picard', 'Voyager': 'Janeway', 'Defiant': 'Sisko', 'Discover
y': 'unknown'}
```

In [ ]:
```
# QUESTION- 19
# Answer- B
```

In [25]:
```
for ship, captain in captains.items():
    print(f"the {ship} is captained by {captain}.")
```

```
the Enterprise is captained by Picard.
the Voyager is captained by Janeway.
the Defiant is captained by Sisko.
the Discovery is captained by unknown.
```

In [ ]:
```
# QUESTION- 20
#  Answer- C
```

In [63]:
```
del captains["Defiant"]
```

In [64]:
```
captains
```

Out[64]:
```
{'Enterprise': 'Picard', 'Voyager': 'Janeway'}
```

In [ ]:
```
# Defiant is deleted from the dictionary
```