SRTINGS

```
a="RRR movie has been released"
print(a.upper())
b="RRR movie has been released"
print(a.lower())
```

```
RRR MOVIE HAS BEEN RELEASED
rrr movie has been released
```

```
a="RRR movie has been released"
print(a.upper())
print(a.upper())
```

```
RRR MOVIE HAS BEEN RELEASED
RRR MOVIE HAS BEEN RELEASED
```

```
a="RRR movie has been released"
print(a.strip())
```

```
RRR movie has been released
```

```
a="RRR movie has been released"
print(a.replace("RRR","RADHE SHYAM"))
```

```
RADHE SHYAM movie has been released
```

```
a="RRR movie has been released"
print(a.replace("RRR","RADHE SHYAM"))
print(a)
print(a.replace("e","f"))
```

```
RADHE SHYAM movie has been released
RRR movie has been released
RRR movif has bffn rflfasfd
```

```
#spliting
a="RRR movie has been released"
print(a.split())
c="RRR, movie has been released"
print(c.split(","))
```

```
['RRR', 'movie', 'has', 'been', 'released']
['RRR', ' movie has been released']
```

```
#cancatination
a="RRR movie has been released"
b="I went to movie with my friends"
#print(a+" "+b)
#print("%a %b" %(a,b)
a=123
b="hello {}"
print(b.format(a,b))
```

```
hello 123
```

```
sub1=int(input("enter maths marks"))
sub2=int(input("enter chem marks"))
sub3=int(input("enter python marks"))
sub4=int(input("enter english marks"))
marks="my math marks are {},english marks are {},python ,arks are {},chem marks are {}"
print(marks.format(sub1,sub2,sub3,sub4))
```

```
enter maths marks70
enter chem marks80
enter python marks75
enter english marks77
my math marks are 70,english marks are 80,python ,arks are 75,chem marks are 77
```

```
#Characters
a="hello Harsha \"hi\""
print(a)
b="hey Bhagyesh \\hello"
print(b)
c="hello \nBhagyesh"
print(c)
d="hello \tBhagyesh"
print(d)
```

```
hello Harsha "hi"
hey Bhagyesh \hello
hello
Bhagyesh
hello   Bhagyesh
```

```
#string methods
a="harsha"
b=a.capitalize()
print(b)
```

```
Harsha
```

```
#count
a="hello world welcome to my world"
b=a.count("")
print(b)
print(len(a))
```

```
32
31
```

```
price=110
quantity=3
item=1
name="monster"
myorder="I buyed {3} with {0} having {1} and purchased {2}"
print(myorder.format(price,quantity,item,name))
```

```
I buyed monster with 110 having 3 and purchased 1
```

LISTS

```
## FRUITS
fruit=['apple','banana','guava','pineapple','watermelon']
print(fruit)
print(fruit[0])
print(fruit[-1])
print(fruit[-2])
print(fruit[0:2])
print(fruit[:2])
print(fruit[1:])
```

```
['apple', 'banana', 'guava', 'pineapple', 'watermelon']
apple
watermelon
pineapple
['apple', 'banana']
['apple', 'banana']
['banana', 'guava', 'pineapple', 'watermelon']
```

```
##append
fruit=["kiwi","mango","apple","watermelon"]
print(fruit)
fruit.append("papaya")
print(fruit)
print(type(fruit))
```

```
['kiwi', 'mango', 'apple', 'watermelon']
```

```
['kiwi', 'mango', 'apple', 'watermelon', 'papaya']
<class 'list'>
```

```
##insertring into list
fruit.insert(4,"jackfruit")
print(fruit)
fruit=["kiwi","mango","apple","watermelon"]
print(fruit)
```

```
['kiwi', 'mango', 'watermelon', 'papaya', 'jackfruit']
['kiwi', 'mango', 'apple', 'watermelon']
```

```
##removing into list
fruit.remove("apple")
print(fruit)
```

```
['kiwi', 'mango', 'watermelon', 'papaya']
```

```
##p0p into list
fruit=["kiwi","mango","apple","watermelon"]
fruit.pop(1)
print(fruit)
```

```
['kiwi', 'apple', 'watermelon']
```

```
##del into list
del fruit[0]
print(fruit)
```

```
['apple', 'watermelon']
```

```
##clear the list content
fruit.clear()
print(fruit)
```

```
[]
```

```
##sort list
num=[10,25,85,44]
num.sort()
print(num)
```

```
[10, 25, 44, 85]
```

```
##sort in desending
num=[10,25,85,44]
num.sort(reverse=True)
print(num)
```

```
[85, 44, 25, 10]
```

```
##alph in list
alph=["h","a","r","s"]
alph.sort()
print(alph)
```

```
['a', 'h', 'r', 's']
```

```
##alph in list
alph=["h","a","r","s"]
alph.sort()
print(alph)
```

```
['a', 'h', 'r', 's']
```

```
rainbow=['violet','indigo','blue','green','yellow','orange','red']
colours=rainbow.copy()
print(colours)
```

```
['violet', 'indigo', 'blue', 'green', 'yellow', 'orange', 'red']
```

```
## Joining of lists
colours=['red','blue','green','yellow']
rainbow=['violet','indigo','blue','green','yellow','orange','red']
print(colours+rainbow)
```

```
['red', 'blue', 'green', 'yellow', 'violet', 'indigo', 'blue', 'green', 'yellow', 'orang
```

```
## printing th index of an item
colours=['orange','red','green','yellow']
colours.index('green')
```

```
2
```

SETS

```
fruits={"kiwi","jackfruit","watermilon","mango"}
print(fruits)
```

```
     {'mango', 'jackfruit', 'kiwi', 'watermilon'}
```

```
fruits={"kiwi","mango","watermilon","jackfruit"}
print(len(fruits))
```

```
     4
```

```
fruits={"kiwi","mango","watermilon"}
for i in fruits:
 print(i)
```

```
     mango
     kiwi
     watermilon
```

```
fruits={"kiwi","mango","watermilon"}
print("mango" in fruits)
```

```
     True
```

```
fruits={"kiwi","watermilon","jackfruit"}
fruits.add("mango")
print(fruits)
```

```
     {'mango', 'jackfruit', 'kiwi', 'watermilon'}
```

```
x={"kiwi","mango","watermilon"}
y={"jackfruit","cherry","blueberry"}
x.update(y)
print(x)
```

```
     {'mango', 'blueberry', 'cherry', 'kiwi', 'watermilon', 'jackfruit'}
```

```
fruits={"kiwi","mango","watermilon","blueberry","jackfruit"}
fruits.remove("blueberry")
print(fruits)
```

```
     {'kiwi', 'watermilon', 'jackfruit', 'mango'}
```

```
## Using pop
fruits={'apple','mango','banana','orange'}
print(fruits.pop())
```

```
     mango
```

```
## Finding weather a set is subset or not
Fruits={'watermelon','apple','grapes','guava','orange'}
```

```
fruits={'apple','mango','banana','orange'}
print(fruits.issubset(Fruits))
```

```
False
```

Dictionaries

```
## Printing a dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
print(details)
```

```
{'name': 'harsha', 'college': 'gitam', 'course': 'btech'}
```

```
## Printing values by using their key
details={'name':'harsha','college':'gitam','course':'btech'}
print(details['name'])
print(details['college'])
print(details['course'])
```

```
harsha
gitam
btech
```

```
## Duplicates not allowed
details={'name':'harsha','college':'gitam','course':'btech','course':'btech cse'}
print(details)
```

```
{'name': 'harsha', 'college': 'gitam', 'course': 'btech cse'}
```

```
## Length of dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
print(len(details))
```

```
3
```

```
## Printing only keys in a dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
print(details.keys())
## Printing only values
print(details.values())
```

```
dict_keys(['name', 'college', 'course'])
dict_values(['harsha', 'gitam', 'btech'])
```

```
## Adding an element
details={'name':'harsha','college':'gitam','course':'btech'}
```

```
details['marks']='93'
print(details)
```

```
{'name': 'harsha', 'college': 'gitam', 'course': 'btech', 'marks': '93'}
```

```
## Finding an element present in a dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
print('name' in details)
```

```
True
```

```
## Changing values using update
details={'name':'harsha','college':'gitam','course':'btech'}
details.update({'course':'btechcse'})
print(details)
```

```
{'name': 'harsha', 'college': 'gitam', 'course': 'btechcse'}
```

```
## Remove an item
details={'name':'harsha','college':'gitam','course':'btech'}
details.pop('course')
print(details)
details.popitem()
print(details)
```

```
{'name': 'harsha', 'college': 'gitam'}
{'name': 'harsha'}
```

```
## Clearing a dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
details.clear()
print(details)
```

```
{}
```

```
## Printing keys usimg for loop
details={'name':'harsha','college':'gitam','course':'btech'}
for i in details:
  print(i)
```

```
name
college
course
```

```
## Copying a dictionary
details={'name':'harsha','college':'gitam','course':'btech'}
sd=details.copy()
print(sd)
```

```
{'name': 'harsha', 'college': 'gitam', 'course': 'btech'}
```

```
## Printing all values as same
a={'key1','key2','key3'}
b='values'
c=dict.fromkeys(a,b)
print(c)
```

```
{'key1': 'values', 'key2': 'values', 'key3': 'values'}
```

```
## Items in an orderd pair
details={'name':'chaitu','college':'gitam','course':'btech'}
a=details.items()
print(a)
```

```
dict_items([('name', 'chaitu'), ('college', 'gitam'), ('course', 'btech')])
```

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