



Computing Fundamentals using Python

SUBJECT CODE : UQ25CA151A

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Computer Applications

Computing Fundamentals using Python



String Manipulation

String methods are built-in functions you can call on strings.

Syntax:

```
string.method(arguments)
```

String Manipulation

Common String Methods

1. Case conversion
2. Check content
3. Search and find
4. Split and join
5. Check start/end
6. Formatting
7. Replacing and Stripping

String Manipulation

String Case Conversion

```
s = "hello World"
print(s.upper())  # "HELLO WORLD"
print(s.lower())  # "hello world"
print(s.title())  # "Hello World"
print(s.capitalize()) # "Hello world"
print(s.swapcase()) # "HELLO wORLD"
```

String Manipulation

String Checking Content

```
s = "Python123"
print(s.isalpha()) # False (letters only? No, it
has digits)
print(s.isdigit()) # False
print(s.isalnum()) # True (letters + digits)
print(s.islower()) # False
print(s.isupper()) # False
print(" ".isspace()) # True
```

String Manipulation

String Searching

```
s = "banana"
print(s.find("na"))    # 2 (first index)
print(s.rfind("na"))   # 4 (last index)
print(s.index("na"))   # 2 (like find, but error if not found)
print(s.count("na"))   # 2
```

String Manipulation

String split and join

```
s = "mango,orange,grapes"  
print(s.split(","))  
# ['mango', 'orange', 'grapes']
```

```
print(s.split(",", 1))  
# ['mango', 'orange,grapes'] (only 1 split)
```

```
print("fresh fruits".split())  
# ['fresh', 'fruits'] (default = split by spaces)
```

String Manipulation

String split and join

```
fruits = ["mango", "orange", "grapes"]
```

```
print(" ".join(fruits))  
# "mango orange grapes"
```

```
print(",".join(fruits))  
# "mango,orange,grapes"
```

```
print("-".join(fruits))  
# "mango - orange - grapes"
```


String Manipulation

String Check start/end

```
text = "programming.py"
print(text.startswith("pro")) # True
print(text.startswith("gram")) # False
print(text.startswith("p")) # True

print(text.endswith(".py")) # True
print(text.endswith(".java")) # False
print(text.endswith("ing")) # False (because it ends with ".py")
```

String Manipulation

String Formatting

```
name = "RAM"  
age = 21  
print("My name is {} and I am {}".format(name, age))  
print(f"My name is {name} and I am {age}") # f-string  
print("My name is %s and I am %d" % (name, age)) # old style
```

String Manipulation

String Replacing and Stripping

```
s = "  hello world  "
print(s.strip())      # "hello world" (removes spaces both sides)
print(s.lstrip())     # "hello world  "
print(s.rstrip())     # "  hello world"
print(s.replace("world", "Python")) # "  hello Python  "
```

MCQ's

String Replacing and Stripping

```
s = "  hello world  "
print(s.strip())      # "hello world" (removes spaces both sides)
print(s.lstrip())     # "hello world  "
print(s.rstrip())     # "  hello world"
print(s.replace("world", "Python")) # "  hello Python  "
```



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