

# APSSDC Andhra Pradesh State Skill Development Corporation Skill



## **Day05 Python Programming**

#### **String Methods Discussed in Last Class**

- upper()
- lower()
- isupper()
- islower()
- isdigit()
- isalnum()
- isspace()
- split()
- strip()
- rstrip()
- Istrip()
- title()
- count()
- istitle()
- · capitialize()
- casefold()
- swapcase()

## **Day05 Objectives**

- · String Methods contd.
- · Conditional Statements
- · Loops in Python

```
In [6]:
            1 roll.startswith('18')
   Out[6]: True
In [7]: ▶
           1 'X4' in roll
   Out[7]: True
In [8]: ▶
            1 cl = 'A1'
              rollNo = '18A11A1232'
In [9]: ▶
            1 roll[2:]
   Out[9]: 'X41A0037'
In [10]: ▶
            1 roll[2:].startswith('X4')
   Out[10]: True
In [12]: ▶
           1 roll[4:].startswith('1A')
   Out[12]: True
In [1]:
            1 email1 = 'support@apssdc.in'
             2 email = 'apssdc.india@apssdc.in'
            3 email4 = 'apssdc.india@gmail.com' # --> employee
               email2 = 'apssdc@gmail.com'
               email3 = 'apssdc@gotomeeting.in'
Out[2]: True
In [3]: ▶
           1 email1.endswith('apssdc.in')
    Out[3]: True
Out[5]: ['support', 'apssdc.in']
In [7]: ▶
            1 email1.split('@')[-1] == 'apssdc.in'
    Out[7]: True
In [8]: ▶
               roll = '18X41A1299' # 12 - IT,
               roll1 = '18X41A0237' # 02 - EEE, 01 - Civil, 05 - CSE, 04 - ECE, 03 - Me
```

```
In [9]:
              1 roll.endswith('1299')
    Out[9]: True
In [10]:
                 roll[6:].startswith('12')
   Out[10]: True
In [11]:
                 roll[:-2]
   Out[11]: '18X41A12'
In [12]:
                 roll[:-2].endswith('12')
   Out[12]: True
         Format
In [17]:
                 'APSSDC Day{} Python Programming'.format('05')
   Out[17]: 'APSSDC Day05 Python Programming'
In [19]:
                 'APSSDC Day{} Python Programming{}'.format('05')
             IndexError
                                                       Traceback (most recent call last)
             <ipython-input-19-4b1d87fbbdd0> in <module>
             ----> 1 'APSSDC Day{} Python Programming{}'.format('05')
             IndexError: Replacement index 1 out of range for positional args tuple
In [18]:
                 'APSSDC Day{} Python Programming {}'.format('05', 'Online')
   Out[18]: 'APSSDC Day05 Python Programming Online'
In [22]:
                 'APSSDC Day{0} Python Programming Day{0}'.format('05')
   Out[22]: 'APSSDC Day05 Python Programming Day05'
In [23]:
                 x = 'APSSDC Day{0} Python Programming Day{0}'
         H
              2
              3
                x.format('05')
   Out[23]: 'APSSDC Day05 Python Programming Day05'
```

```
In [25]:
              1 x.format('06')
   Out[25]: 'APSSDC Day06 Python Programming Day06'
In [26]: ▶
              1 x.format('five')
   Out[26]: 'APSSDC Dayfive Python Programming Dayfive'
In [30]:
                 email
   Out[30]: 'apssdc.india@apssdc.in'
In [31]: N
                 email.find('@')
   Out[31]: 12
                 email[email.find('@') + 1:].startswith('apssdc.in')
In [33]:
   Out[33]: True
              1 roll
In [34]:
   Out[34]: '18X41A1299'
In [35]:
                 roll.find('12')
   Out[35]: 6
In [36]:
              1 help(str.find)
             Help on method_descriptor:
             find(...)
                 S.find(sub[, start[, end]]) -> int
                 Return the lowest index in S where substring sub is found,
                 such that sub is contained within S[start:end]. Optional
                 arguments start and end are interpreted as in slice notation.
                 Return -1 on failure.
In [37]:
                 roll.find('02')
   Out[37]: -1
In [38]:
                 email
   Out[38]: 'apssdc.india@apssdc.in'
```

### **Predifined Functions which can apply for strings**

#### **Conditional Statements**

- if
- elif
- else

#### syntax for if:

```
statementn
         syntax for if-else:
             if condition:
                 statement1
                 statement2
                 statementn
             else:
                 statement1
                 statement2
                 statementn
In [56]:
               1 a = 22
               1 if a % 2 == 0:
In [60]:
                      print("even")
               2
               3
                      print(a)
               4
                      print('{} is a even number'.format(a))
               5
               6 print('Hello World')
             even
             22
             22 is a even number
             Hello World
```

if condition:

statement1
statement2

```
In [61]:
               1
                  if a % 2 == 1 or a % 2 != 0:
                      print("Odd")
               2
               3
                      print(a)
                      print('{} is a odd number'.format(a))
               4
               5
                 else:
               6
                      print("even")
               7
                      print(a)
                      print('{} is a even number'.format(a))
               8
               9
              10 print('Hello World')
             even
             22
             22 is a even number
             Hello World
In [65]:
                  if a % 2 == 1 or a % 2 != 0:
                      print("Odd")
               2
               3
                      print(a)
                      print('{} is a odd number'.format(a))
               4
               5
                      print('Hello World')
               6
                 else:
               7
                   print("even")
               8
                    print(a)
               9
                    print('{} is a even number'.format(a))
              10
              11 print('Hello World')
               File "<ipython-input-65-931bd5bbf4c1>", line 9
                 print('{} is a even number'.format(a))
             IndentationError: unexpected indent
In [66]:
                  if a % 2 == 1 or a % 2 != 0:
          H
               1
                      print("Odd")
               2
               3
                      print(a)
               4
                      print('{} is a odd number'.format(a))
               5
                      print('Hello World')
               6
                 else:
               7
                   print("even")
               8
                    print(a)
               9
                      print('{} is a even number'.format(a))
              10
              11 print('Hello World')
               File "<ipython-input-66-931bd5bbf4c1>", line 9
                 print('{} is a even number'.format(a))
             IndentationError: unexpected indent
```

```
In [68]:
              1 if a % 2 == 1 or a % 2 != 0:
                     print("Odd")
              2
              3
                     print(a)
                     print('{} is a odd number'.format(a))
              4
              5
                     print('Hello World')
              6 else:
              7
                   print("even")
              8
                   print(a)
              9
                   print('{} is a even number'.format(a))
              10
             11
                  print('Hello World')
               File "<tokenize>", line 11
                 print('Hello World')
```

IndentationError: unindent does not match any outer indentation level

syntax for if-elif-else:

```
if condition:
                 statement1
                 statement2
                 statementn
             elif condition:
                 statement1
                 statement2
                 statementn
             else:
                 statement1
                 statement2
                 statementn
In [69]:
          H
                 roll = '18X41A1299'
               1
                 if roll[:-2].endswith('12'):
               3
               4
                      print('roll Number {} belongs to IT department'.format(roll))
               5
                 elif roll[:-2].endswith('02'):
                          print('roll Number {} belongs to EEE department'.format(roll))
               7
                 elif roll[:-2].endswith('01'):
               8
                          print('roll Number {} belongs to Civil department'.format(roll))
               9
                 else:
              10
                          print('roll Number {} belongs to other department'.format(roll))
              11
```

roll Number 18X41A1299 belongs to IT department

- 1. Write a program program to identify weather the given input email belogs to apssdc.in or gmail.com or other
  - apssdc@apssdc.in (mailto:apssdc@apssdc.in)
  - apssdc@gmail.com (mailto:apssdc@gmail.com)
  - apssdc@srkit.edu.in (mailto:apssdc@srkit.edu.in)
  - output: Given email emailId is belongs to apssdc domain
- 2. Write a program to identify weather the given input number is divisible by 2, 6 and 10
  - output: Given number num is divisible by 2, 6, 10

```
In [75]:
          H
                 email1= 'apssdc@apssdc.in'
                 email2='apssdc@gmail.com'
               3
                 email3='apssdc@srkit.edu.in'
               5
                 email=input("enter a Domain")
               6
               7
                 if(email == email1[8:]):
                     print("it belongs to apssdc")
               8
              9
                 elif(email == email1[8:]):
                     print("it belongs to gmail")
              10
              11 elif(email == email1[8:]):
                     print("it belongs to edu.in")
              12
              13 else:
                     print('It beongs to other domain')
              14
```

enter a Domainapssdc.in
It beongs to other domain

```
In [72]:
                 val = input("Enter your email")
               3
                 if 'apssdc.in' in val:
                      print("given emailId {} belongs to apssdc domain".format(val))
               4
                 elif 'gmail.com' in val:
               5
               6
                      print("given emailId {} belongs to gmail domain".format(val))
               7
                 elif 'srkit.edu.in' in val:
                      print("given emailId {} belongs to SRKIT domain".format(val))
               9
                 else:
                      print("given emailId {} belongs to other domain".format(val))
              10
```

Enter your emailapssdc@tcs.in
given emailId apssdc@tcs.in not belongs to other

Enter a number37 Given number 37 is not divisible by 2, 6 and 10