

format() String

In [1]:

```
str = "my age is {}"  
print(str.format(62))
```

my age is 62

In [2]:

```
print("my age is {}".format(62))
```

my age is 62



'%d' == '{:d}'

'%05.3f' == '{:05.3f}'

In [3]:

```
print("{}".format(10))  
print("{} {}".format(10,20))  
print("mobile phone{} computer price {}".format(10,20))
```

10
10 20
mobile phone10 computer price 20

In [4]:

```
print("{0} {1}".format(10,20))
```

10 20

In [5]:

```
print("{1} {0}".format(10,20))
```

20 10

In [6]:

```
print("{a} {b}".format(a=10,b=20))
```

10 20

In [7]:

```
print("{b} {a}".format(a=10,b=20))
```

20 10

In [8]:

```
print("{b} {a}".format(a=10,b=20))
```

20 10

In [9]:

```
print("{b} {a}".format(a=10.05,b=20.98))
```

20.98 10.05

In [10]:

```
print("{0} {1}".format(10.05,20.98))
```

10.05 20.98

In [11]:

```
print("{0} {1}".format("aadil", "golu"))
```

aadil golu

In [12]:

```
print("{a} {b}".format(a = "aadil",b="golu"))
```

aadil golu

In [13]:

```
print("{a} {b}".format(a = 10 ,b="golu"))
```

here 10 is an string, becoz humne %d nhi li kha h.

10 golu

In [14]:

```
print("{a:d} {b:d}".format(a = 10, b=35 ))
```

10 35

In [15]:

```
print("{:d} {:d}".format(10,35 ))
```

10 35

In [16]:

```
print("{0:d} {1:d}".format(10, 35 ))
```

10 35

Width

In [17]:

```
print("{0:5d}".format(10))
```

created 5 boxes, 3 empty

10

In [18]:

```
print("{a:5d}".format(a = 10))
```

10

Flag PADDING

In [19]:

```
print("{a:05d}".format(a = 10))
```

00010

In [20]:

```
print("{a:+5d}".format(a = 10))
```

+10

In [21]:

```
print("{a:=5d}".format(a = 10))
```

10

ALIGNMENT

In [22]:

```
print("{a:<5d}".format(a = 10))           # 5 BOXES CREATED (3-EMPTY), FROM LEFT
```

10

In [23]:

```
print("{a:*<5d}".format(a = 10))
```

10***

In [24]:

```
print("{a:*>5d}".format(a = 10))
```

***10

In [25]:

```
print("{a:^<5d}".format(a = 10))
```

10^^^

In [26]:

```
print("{a:^5d}".format(a = 10))          # WRITTEN IN CENTRE OF 5 BOXES.
```

10

In [27]:

```
print("{a:*^5d}".format(a = 10))
```

```
print("{a:^5d}".format(a = 10))
```

*10**

10

Float

In [28]:

```
print("{}".format(15.65))      # string
print("{:f}".format(15.65))    # float
print("{0:f}".format(15.65))
print("{num:f}".format(num = 15.65))
```

15.65

15.650000

15.650000

```
15.650000
```

Width with float

In [29]:

```
print("{num:8f}".format(num=15.65))  
# remember that after point float takes 8 boxes in width  
# yaha width ko 8 empty box create krna tha lekin ab 9 create kr rha h, decimal i  
ncluded.
```

```
15.650000
```

precision, width and float

In [30]:

```
print("{num:8.3f}".format(num=15.65))  
# decimal ke baad srf 3 digit dikhao.
```

```
15.650
```



In [31]:

```
print("{num:8f}".format(num=15.65))  
print("{num:8.3f}".format(num=15.65))  
print("{num:8.2f}".format(num=15.65))
```

```
15.650000  
15.650  
15.65
```

Alignment

In [32]:

```
print("{num:<8.2f}".format(num=15.65))  
print("{num:*<8.2f}".format(num=15.65))
```

```
15.65  
15.65***
```

In [33]:

```
print("{num:f}".format(num=15.65))  
print("{num:*<8.2f}".format(num=15.65))  
print("{num:*>8.2f}".format(num=15.65))  
print("{num:^8.2f}".format(num=15.65))  
print("{num:*^8.2f}".format(num=15.65))
```

```
15.650000  
15.65***  
***15.65  
15.65  
*15.65**
```

Seperator

In [34]:

```
print("{:,}".format(1234567890))
```

```
1,234,567,890
```

```
In [35]:
```

```
print("{:_}".format(1234567890))
```

```
1_234_567_890
```



```
In [36]:
```

```
a = 50
b = 3
print("{:.2}".format(a/b))    # exponent
```

```
1.7e+01
```

```
In [37]:
```

```
a = 50
b = 3
print("{:.2%}".format(a/b))   # percent
```

```
1666.67%
```

```
In [38]:
```

```
a = (50, 60)
print("{} {}".format(a))      # tuple error
```

```
-----
IndexError                                Traceback (most recent call last)
<ipython-input-38-00806672dab0> in <module>
      1 a = (50, 60)
----> 2 print("{} {}".format(a))      # tuple error
```

```
IndexError: tuple index out of range
```

```
In [39]:
```

```
a = (50, 60)
print("{0} {1}".format(a))    # tuple error
```

```
-----
IndexError                                Traceback (most recent call last)
<ipython-input-39-a1bb68e75732> in <module>
      1 a = (50, 60)
----> 2 print("{0} {1}".format(a))    # tuple error
```

```
IndexError: tuple index out of range
```

```
In [40]:
```

```
value = (50, 60)
print("{0[0]} {0[1]}".format(value))
```

```
50 60
```

```
In [41]:
```

```
a = {'rahul':2000, 'sonam': 3000}
print("{0[rahul]:d} {0[sonam]:d}".format(a))
```

```
2000 3000
```

In [42]:

```
a = {'rahul':2000, 'sonam': 3000}
print("{0[rahul]:d} {0[sonam]}".format(a))    # 3000 is string here
```

2000 3000

In [43]:

```
# second method
value = {'rahul':2000, 'sonam': 3000}
print("{a[rahul]:d} {a[sonam]:d}".format(a = value))
```

2000 3000

In [51]:

```
value = {'rahul':2000, 'sonam': 3000, 'game':'gta'}
print("{rahul} {sonam} {game}".format(**value))
```

2000 3000 gta