

Fundamental with Python- Paper 1 - Part 1

Study the above examples and do the following

1. Display each of the following on the screen by using single Python commands.

a) Hello! Welcome to Python

- i)

```
>>> print('Hello! Welcome to Python')
Hello! Welcome to Python
>>>
```
- ii)

```
>>> print('Hello! Welcome to Python')
Hello! Welcome to Python
>>>
```
- iii)

```
>>> print(Hello! Welcome to Python)
Hello! Welcome to Python
>>>
```
- iv)

```
>>> print('Hello! Welcome to Python)
Hello! Welcome to Python
>>>
```

b) $3 + 4 + 5 =$ <get the answer here>

- i)

```
>>> print(3+4+5=',3+4+5)
3+4+5= 12
>>>
```
- ii)

```
>>> print('(3+4+5=',3+4+5)
3+4+5= 12
>>>
```
- iii)

```
>>> print('3+4+5=',3+4+5)
3+4+5= 12
>>>
```
- iv)

```
>>> print('(3+4+5=',3+4+5)
3+4+5= 12
>>>
```

c) $3 - 5 - 7 =$ <get the answer here>

- i)

```
>>> print(3-5-7=',3-5-7)
3-5-7= -9
>>>
```
- ii)

```
>>> print('3-5-7=',3-5-7)
3-5-7= -9
>>>
```

```

iii) >>> print('3-5-7=',3-5-7)
      3-5-7= -9>>>
iv)  >>> print(3-5-7=',3-5-7')
      3-5-7= -9
      >>>

```

d) $2 \times 3 \times 4$ = <get the answer here>

```

i)  >>> print('2+3*4=',2*3*4)
      2*3*4= 24
      >>>

```

```

ii) >>> print('2*3-4=',2*3*4)
      2*3*4= 24
      >>>

```

```

iii) >>> print('2*3*4=',2*3*4)
      2*3*4= 24
      >>>

```

```

iv) >>> print('2*3*4=',2*3*4)
      2*3*4= 24
      >>>

```

e) $12 / 6$ = <get the integer value i.e. 2>

```

i)  >>> print('12//6=',12//6)
      12//6= 2
      >>>

```

```

ii) >>> print(12//6=',12//6)
      12//6= 2
      >>>

```

```

iii) >>> print('12//6=',12//6)
      12//6= 2'
      >>>

```

```

iv) >>> print"(12//6=,12//6)"
      12//6= 2
      >>>

```

f) $12 / 6$ = <get the real number value i.e. 2.0>

```

i)  >>> print('12/6=',12/6)
      12/6= 2.0
      >>>

```

```

ii) >>> print('12/6='12/6)
      12/6= 2.0
      >>>
iii) >>> print('12/6=',12/6)
      12/6= 2.0
      >>>
iv)  >>> print('12/6=',12/6)
      12/6= 2.0"
      >>>

```

g) "Sigiriya"

```

i) >>> print("Sigiriya")
      "Sigiriya"
      >>>
ii) >>> print(Sigiriya)
      "Sigiriya"
      >>>
iii) >>> print,"Sigiriya")
      "Sigiriya"
      >>>
iv) >>> print("Sigiriya")
      "Sigiriya,"
      >>>

```

h) My father's car

```

i) >>> print(My Father's Car)
      My Father's Car
ii) >>> print("My Father's Car")
      My Father's Car
iii) >>> print("My Father's Car")
      My Father's Car"
iv) >>> print,"My Father's Car")
      My Father's Car

```

i) "Bang!" with a beep

```

i) >>> print(\a"Bang")
      "Bang"
      >>>
ii) >>> print(\a'Bang')
      "Bang"
      >>>
iii) >>> print("\a"Bang")
      "Bang"
      >>>

```

```
iv) >>> "print('\a"Bang"")
      "Bang"
      >>>
```

j) 2^{1000} = <get the answer here>

```
i) >>> print('2+1000=',2**1000)
2^1000=
10715086071862673209484250490600018105614048117055336074437503883703510511249
36122493198378815695858127594672917553146825187145285692314043598457757469857
48039345677748242309854210746050623711418779541821530464749835819412673987675
59165543946077062914571196477686542167660429831652624386837205668069376
>>>
```

```
ii) >>> print('2-1000=',2**1000)
2^1000=
107150860718626732094842504906000181056140481170553360744375038837035105
11249
361224931983788156958581275946729175531468251871452856923140435984577574
69857
480393456777482423098542107460506237114187795418215304647498358194126739
87675
59165543946077062914571196477686542167660429831652624386837205668069376
>>>
```

```
iii) >>> print('2^1000=',2**1000)
2^1000=
107150860718626732094842504906000181056140481170553360744375038837035105
11249
361224931983788156958581275946729175531468251871452856923140435984577574
69857
480393456777482423098542107460506237114187795418215304647498358194126739
87675
59165543946077062914571196477686542167660429831652624386837205668069376
>>>
```

```
iv) >>> print('2^1000=,2**1000)
2^1000=
107150860718626732094842504906000181056140481170553360744375038837035105
11249
361224931983788156958581275946729175531468251871452856923140435984577574
69857
480393456777482423098542107460506237114187795418215304647498358194126739
87675
59165543946077062914571196477686542167660429831652624386837205668069376
>>>
```

2. Evaluate each the following by using single Python commands.

a) $12 + 3 - 5.001$

i) 12-3-5.001
9.998999999999999
>>>

ii) 12/3-5.001
9.998999999999999
>>>

iii) 12+3-5001
9.998999999999999
>>>

iv) 12+3-5.001
9.998999999999999
>>>

b) $3^4 \times 34$

i) >>> $3/4 \times 34$
139
>>>

ii) >>> $3^4 \times 34$
139
>>>

iii) >>> $3^4/34$
139
>>>

iv) >>> $3+4 \times 34$
139
>>>

c) $435.132 \times 0.65 / 22.33$

v) >>> $435.132+0.65/22.33$
12.666180026869684
>>>

vi) >>> $435.132+0.65/22.33$
12.666180026869684
>>>

vii) >>> $4352132 \times 0.65/22.33$
12.666180026869684
>>>

viii) >>> $435.132 \times 0.65/22.33$
12.666180026869684
>>>

d) $\sqrt{25}$

a. `>>> 25**(1/2)`

`5.0`

b. `>>> 25*(1/2)`

`5.0`

c. `>>> 2+(1/2)`

`5.0`

d. `>>> 25**(1*2)`

`5.0`

e) -4 (Minus 4) raised to the power 2

i) `>>> (-4)**2`

`16`

`>>>`

ii) `>>> (4)**2`

`16`

`>>>`

iii) `>>> (-4)/2`

`16`

`>>>`

iv) `>>> (4)**2`

`16`

`>>>`