



Serial No.

Notes

Date

Assignment - I

Basics of Python

Submitted by :-

Submitted to :-

Name \Rightarrow Kulvir Singh Saggu
(B.Tech CSE) \rightarrow 2nd Semester

Ms. Simranjot Kaur
(Python Lecturer)

Roll No : GU-2021-4246



Serial No.

Notes

Date

Assignment - I

1. State the output of the following statements and justify:-

```
num 1 = '15'
```

```
num 2 = '34'
```

```
sum = num1 + num2
```

```
print (sum*2)
```

Ans:- Output \Rightarrow 15341534

The value of num1 and num2 is enclosed in single quotes and in python these values are considered as string value, so they will concatenate and give output 15341534.

2. State the output of the following statements and justify:-

(a) 1 & 3

Ans:-

```
a = 1
```

```
b = 3
```

```
c = 1 & 3
```

```
print (c)
```

Output \Rightarrow 1



Serial No.

Notes

Date

Bitwise AND operator

 $1 \rightarrow 0001$ $3 \rightarrow 0011$ $0001 \rightarrow 1$ (b) $3/5$ Ans:- $a = 3$ $b = 5$ $c = 3/5$ $\text{print}(c)$ Output $\Rightarrow 7$

Bitwise OR operator

 $3 \rightarrow 0011$ $5 \rightarrow 0101$ $0111 \rightarrow 7$ (c) 1^5 Ans:- $a = 1$ $b = 5$ $c = 1^5$ $\text{print}(c)$ Output $\Rightarrow 4$

Bitwise XOR operator

 $1 \rightarrow 0001$ $5 \rightarrow 0101$ $0100 \rightarrow 4$



3. Discuss the following string formatting techniques:

(i) Old style (C-style) string formatting using `%` operation.

Ans:- Strings in python have a unique built in operation that can be accessed with `%` operation. This let you do simple positional formatting very easily.

Example →

```
Name = 'KULVIR'
a = "Hello %s" % Name
```

```
print(a)
```

Output ⇒ Hello KULVIR

(ii) `string.format()`

Ans:- This new style string formatting gets rid of the `%` operator special syntax and makes the syntax for string formatting more regular. Formatting is now handled by calling `format()` on a string object.

Example ⇒

```
Print('My Name is {Name} and I am {age} years old'
format(Name = 'Kulvir', age = '18'))
```

Output ⇒ My Name is Kulvir and I am 18 years old.



Serial No. _____

Notes _____

Date _____

(iii)

f-strings

Ans:-

Python f-strings are a concise way to evaluate formatted string expressions. f-strings are evaluated at run time. This makes them powerful and let you include expressions, conditions, alignment in a string.

Example ⇒

Name = 'Kulvir'

age = '20'

```
print(f'My Name is {Name} and I am {age} years old')
```

Output ⇒ My Name is Kulvir and I am 20 years old.

4.

Explain the use of escape sequences in python.

Ans:-

Escape sequences allow you to include special characters in string. To do this just add a backslash (\) before character you want to escape.

Escape Sequences ⇒

\t → tab

\n → new line

\ ' → single quote

\ " → double quote



Serial No.

Notes

Date

Example \Rightarrow

1. (\')

`print('Hey What\'s up')`

Output \Rightarrow Hey What's up.

2. (\")

`print("Hey What\"s up")`

Output \Rightarrow Hey What"s up.

3. (\t)

~~`print`~~ \rightarrow {

`print('Hey What\'s \t up')`

Output \Rightarrow Hey What's up.

4. (\n)

`print('Hey What\'s \n up')`

Output \Rightarrow Hey What's up.