

FUNCTIONS

ASSIGNMENTS

Q.1 If return statement is not used inside the function, then what value will be returned by a function.

Q.2 What is the output of the following code?

```
def myfun(*name):  
    print('Hello', name)  
myfun('my', 'school')
```

Q.3 What is the output of the following code?

```
numbers = [4, 5, 6]  
newNumbers = tuple(map(lambda x: x , numbers))  
print(newNumbers)
```

Q.4 Define a function which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 1000 and 3000 (both included)

Q.5 Define the same function of question no 4 where starting and ending number is passed as argument

Q.6 Define a function that accepts a sentence and calculate the number of letters and digits

Q.7 Define a function that accepts a sentence and calculate the number of upper case letters and lower case letters

Q.8 Define a function that can accept two strings as input and concatenate them and then print it in console.

Q.9 Define a function which can generate and print a list where the values are square of numbers between 1 and 20 (both included).

Q.10 With a given tuple (1,2,3,4,5,6,7,8,9,10), define a function to print the first half values in one line and the last half values in one line.

Q.11 What is the output of the below program?

```
def myfunc(a, b=5, c=10):  
    print('a is', a, 'and b is', b, 'and c is', c)  
myfunc(3, 7)  
myfunc(25, c = 24)  
myfunc(c = 50, a = 100)
```

Q.12 What is the output of the below program?

```
x = 150
```

```
def myfunc():
```

```
    global x
```

```
    print('x is', x)
```

```
    x = 2
```

```
    print('Changed global x to', x)
```

```
myfunc()
```

```
print('Value of x is', x)
```

Q.13 What is the difference between a parameter and an argument?

Q.14 Why is using the global statement a bad practice?

Q.15 How can we make a parameter of a function optional?

Q.16 What is the difference between local and global variables?

Q.17 Write a function called my_buzz that takes a number.

 If the number is divisible by 3, it should return “Fizz”.

 If it is divisible by 5, it should return “Buzz”.

 If it is divisible by both 3 and 5, it should return “FizzBuzz”.Otherwise, same no.

Q.18 Write a function that returns the sum of multiples of 3 and 5 between 0 and limit (parameter)

Q.19 Write a function that prints all the prime numbers between 0 and limit where limit is a parameter.

Q.20 What Is The Output Of The Following Code Snippet?

```
x = 50
```

```
def func():
```

```
    global x
```

```
    print('x is', x)
```

```
    x = 2
```

```
    print('Changed global x to', x)
```

```
func()
```

```
print('Value of x is', x)
```

Q. 22 What Is The Output Of The Following Code Snippet?

```
num = 1
def func():
    global num
    num = num + 3
    print(num)
```

```
func()
print(num)
```

Q.23 What Is The Value Of Num After The Function Call?

```
def myfunc(text, num):
    while num > 0:
        num = num - 1
```

```
num=4
myfunc('Hello', num)
```

Q.24 What Is The Output Of The Following Code Snippet?

```
def testvarargs(farg, *args):
    print ("formal arg:", farg)
    for arg in args:
        print ("another arg:", arg)
testvarargs(1, "two", 3)
```

Q.25 What Is The Name Given To That Area Of Memory, Where The System Stores The Parameters And Local Variables Of A Function Call?

Q.26 What Is The Output Of The Following Code Snippet?

```
exp = lambda x: x ** 3
print(exp(3))
```