In [ ]:
```
Name   : Swetha Jenifer
Roll No: 225229142
```

1

In [70]:
```
my_name="Jenifer"
print(my_name)
my_age=22
print(my_age)
def make_introduction(my_name,my_age):
    print("hello"+my_name+"am i am"+str(my_age)+"years old")
```

```
Jenifer
22
```

2

In [2]:
```
def func1(*args):
    for i in args:
        print(i)

func1(10,20,30)
func1(60,200)
```

```
10
20
30
60
200
```

3

In [5]:
```
def cal(a,b):
    add=a+b
    sub=a-b
    return add,sub
res=cal(50,10)
print(res)
```

```
(60, 40)
```

4

In [71]:
```
def show_employee(name,salary=9000):
    print("name:",name,"salary:",salary)

show_employee("Swetha",10000)
show_employee("Jenifer")
```

```
name: Swetha salary: 10000
name: Jenifer salary: 9000
```

5

In [8]:
```
def outer_fun(a,b):
    square=a**2
    def add(a,b):
        return a+b
    add=add(a,b)
    return add +4
result=outer_fun(6,10)
print(result)
```

```
20
```

6

In [9]:
```
str=input("enter a string:")
w=""
for element in str[::-1]:
    w=w+element
if(str==w):
    print(str,'is a palindrome string')
else:
    print(str,'is not a palindrome string')
```

```
enter a string:god
god is not a palindrome string
```

7

In [10]:
```
list1=[10,65,4,45,55,90]
for num in list1:
    if num % 2 !=0:
        print(num,end=" ")
```

```
65 45 55
```

8

In [11]:
```
def change_string(str1):
    return str1[-1:] + str1[1:-1] + str[:1]
print(change_string('welcome'))
```

```
eelcomg
```

9

In [75]:
```
ini_string = 'S'
ini_string2 = 'Jenifer'
c="a"
print("initial_strings:",ini_string," ",
     ini_string2, "\n character_to_find:",c)

res1=ini_string.find(c)
res2=ini_string.find(c)

if res1 == -1:
    print("no such charatcer available in string {}".format(
    ini_string))
else:
    print("character {} in string {} is present at {}".format(
    c, ini_string, str(res1 +1)))
if res2 ==-1:
    print("no such charatcer available in string {}".format(
    ini_string2))
else:
    print("character {} in string {} is present at {}".format(
    c, ini_string2, str(res2 +1)))
```

```
initial_strings: S   Jenifer
 character_to_find: a
no such charatcer available in string S
no such charatcer available in string Jenifer
```

10

In [16]:
```
import re
string='geeksforgeeks'
pattern = 'for'
match = (re.search(pattern, string))

print("starting index", match.start())

print("start and end index", match.span())
```

```
starting index 5
start and end index (5, 8)

11
```

11

A

In [76]:
```
string="Hhai friends"
new_string = string.lstrip("H")
print(new_string)

string = "Hai i am Swetha Jenifer"
```

```
new_string= string.lstrip("H")
print(new_string)
```

```
hai friends
ai i am Swetha Jenifer
```

B

In [56]:
```
word=input()
print(word[1:]+word[0])
```

```
hai friends
ai friendsh
```

C

In [29]:
```
def pig_latin(text):
    say = ""
    words = text.split()
    for word in words:
        endstring = str(word[1]).upper()+str(word[2:])
        them = endstring, str(word[0:1]).lower(), 'ay'
        word=''.join(them)
        return word

print(pig_latin(""))
```

```
None
```

12.

In [35]:
```
def countCharacterType(str):
    vowels = 0
    consonant = 0
    specialchar = 0
    digit = 0

    for i in range(0, len(str)):

        ch=str[i]

        if ( (ch >= 'a' and ch <= 'z') or
            (ch >= 'A' and cjh <= "Z") ):

            ch = ch.lower()

            if (ch == 'a' or ch == 'e' or ch == 'i'
               or ch == 'o' or ch == 'u'):
                vowels +=1
            else:
                consonant +=1
        elif (ch >= '0' and ch <= '9'):
            digit +=1
        else:
```

```
            specialchar +=1

    print("vowels", vowels)
    print("consontant", consonant)
    print("specialchar", specialchar)
    print("digit", digit)

str= "geeks for geeks121"
countCharacterType(str)
```

```
vowels 5
consontant 8
specialchar 2
digit 3
```

13

In [36]:
```
def replace(s,old, new):
    ss=s.split(old)
    js=new.join(ss)
    return js
```

In [37]:
```
print(replace("Mississippi","i","I"))
```

```
MIssIssIppI
```

14. Built-in function

A

In [38]:
```
print("Minimum of 5,7,45.3,26 and 500 is :", end="")
print(min(5,7,45.3,26,500))
```

```
Minimum of 5,7,45.3,26 and 500 is :5
```

B

In [40]:
```
lis = [2,1,3,4,3]

print ("the first occurrence of 3 after 3rd position is:",end="")
print (lis.index(3,3,6))

print ("The number of occurrences of 3 is :", end="")
print (lis.count(3))
```

```
the first occurrence of 3 after 3rd position is:4
The number of occurrences of 3 is :2
```

C

In [41]:
```
import math
x= 3.5367
math.floor(x)
x=6
math.floor(x)
```

Out[41]:
```
6
```

In [42]:
```
import math
math.sqrt(5)
math.sqrt(3)
math.sqrt(24)
```

Out[42]:
```
4.898979485566356
```

15. What is mean by function? And explain positional information can be passed into functions as arguments.

In [ ]:
```
You can pass data, known as parameters, into a function.

A function can return data as a result.
```

In [43]:
```
def my_function():
    print("hello function")

my_function()
```

```
hello function
```

Arguments

In [44]:
```
def my_function(fname):
    print(fname + "python")

my_function("Emil")
my_function("Tobias")
my_function("Linus")
```

```
Emilpython
Tobiaspython
Linuspython
```

A positional argument

In [47]:
```
def function(a,b,/,c,d,*,e,f):
    print (a, b, c, d, e, f)

function(1, 2, 3, d = 4, e = 5, f = 6)
```

```
1 2 3 4 5 6
```

In [ ]:
```

```