Task 1 :-

In [28]:

```
def palindrome(a):
    return a == a [::-1]
a = input("Enter srting :- ")
out = palindrome(a)
if out :
    print("yes it is palindrome")
else :
    print("No it is not palindrome")
```

```
Enter srting :- adda
yes it is palindrome
```

Task 2 :-

In [29]:

```
def sorting(a):
    word = sorted(a)
    return word
b = input("Enter srting :- ")
sorting(b)
```

```
Enter srting :- aish
```

Out[29]:

```
['a', 'h', 'i', 's']
```

Task 3 :- Create Uesr defined functions to convert list of characters into a sting

In [30]:

```
a = ["h","e","l", "l", "o" ]
def conv(a):
    word = " "
    for i in a:
        word += i
    return word
conv(a)
```

Out[30]:

```
' hello'
```

Task 4 :-

In [31]:

```
a = [2,3,6,9,8,7,1,0]
def minmax(a):
    c = max(a)
    b = min(a)
    return b,c
print(minmax(a))
```

```
(0, 9)
```

Task 5 :-

In [32]:

```
dict = {'item1' : 45.50, 'item2' : 35, 'item3' : 41.30, 'item4' : 29, 'item5' :49.89}
def minmax1 (dict):
    minimum = min(dict.values())
    maximum = max(dict.values())
    return minimum ,maximum

print(minmax1(dict))
```

```
(29, 49.89)
```

Task 6 :- Generate profile card

In [33]:

```
def info():
    Name = input("Enter Name :")
    Age = int(input("Age :"))
    gender = input("Enter gender :")
    return Name, Age, gender
def card():
    Name, Age, gender = info()
    print("profile card : ")
    print("Name",Name)
    print("Age",Age)
    print("gender",gender)

card()
```

```
Enter Name :Aishwarya
Age :25
Enter gender :female
profile card :
Name Aishwarya
Age 25
gender female
```

Task 7:- nested function

In [47]:

```
def fun(a):
     def fun2(b):
        return a**2*b
     return fun2
a = int(input("Enter value a "))
b = int(input("Enter value b "))
p = fun(a)
print(p(b))
```

```
Enter value a 2
Enter value b 4
16
```

Task 8 :- Sorting Colour frequence tuples

In [2]:

```
color = [('black', 4), ('green',1), ('red',5), ('blue',2), ('yello',3)]
def sorting(lists):

    lists.sort(key = lambda x :x[1])
    return lists
print(sorting(color))
```

```
[('green', 1), ('blue', 2), ('yello', 3), ('black', 4), ('red', 5)]
```

Task 9 :-

In [27]:

```
a = ["Andy", "Mandy", "sandy"]
b = ["Handy", "Brandy", "Mandy"]
def intersection(a,b):
        func = lambda a, b : (set(a).intersection(set(b)))
        return func
print(intersection(a,b))
```

```
<function intersection.<locals>.<lambda> at 0x000001EF822D7940>
```

Task 10:-

In [22]:

```
c = [12,13,14]
d = [17,16,15]
ADD = map(lambda x, y: x + y, c, d)
print(list(ADD))
```

```
[29, 29, 29]
```