

In [ ]:

```
#print
print("hello world")
```

In [ ]:

```
#type
a='hello'
print(type(a))
print("value of a",a)
```

In [ ]:

```
#ifelse
a=5
b=2
c=3
if a>b:
    if a>c:
        print("a is greater")
    else:
        print("c is greater")
else:
    if b>c:
        print("b is greater")
    else:
        print("c is greater")
```

In [ ]:

```
#operation
d=a+b
print(d)
```

In [ ]:

```
#list1
fav=[]
print(fav)
fav2=["hii",1,2.3,8]
fav.append(fav2)
print(fav)
del fav[0]
print(fav)
print(type(fav))
fav2.extend(fav)
print(fav2)
print(fav2[:2])
```

In [ ]:

```
#dictionary
fav={}
fav['color']='red';
print(fav)
fav.update({
    'subject':'ML',
    'marks': [10,20],
    '10':'ml_marks',
    10:'ml_marks'  #at key
})
print(fav)
print(type(fav))
```

In [ ]:

```
#list2
a=[1,2,3,4,5,6,7,8,9]
print(len(a))
print(a[:])  #start from:end before
print(a[:2])
print(a[:4])
print(a[:6])
print(a[:-5])
print(a[-1:])
print(a[-2:])
print(a[2:])
```

In [ ]:

```
#forloop
a=[1,2,3,4,5,6,7,8]
for i in a:
    print(i)
```

In [ ]:

```
#range
for i in range(4):
    print(i)
print("*****")
for i in range(50,61):
    print (i)
```

In [ ]:

```
#function
def fun(num):
    x=num
    print(x)
    return x
y=43
z=fun(y)
print("sum is",z+y)
```

In [ ]:

```
#task1
a=1.5
b=6.3
print("the sum of ",b,"and",a,"is",(a+b))
```

In [10]:

```
#task2 prime or not
a=input("enter number to check")
a=int(a)
flag=0
for i in range(2,a):
    if(a%i==0):
        flag=1

if flag==1:
    print("not prime")
else:
    print("prime")
```

enter number to check24  
not prime

In [4]:

```
#task3
#factorial
def fact(n):
    if n==1:
        return n;
    else:
        return n*fact(n-1);
a=fact(4)
print(a)
```

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In [ ]: