

**Worksheet -Functions  
COMPUTER SCIENCE**Std/ Sec: **XII** \_\_

1. 

```
def cal():
    i = 9
    while i > 1:
        if i%2==0:
            x = i%2
            i = i-1
        else:
            i = i-2
            x = i
        print (x**2)
cal()
```
2. 

```
def sum(a,b):
    print("sum is ",a+b)
x=5
y=10
sum(x,y)
sum(20,40)
```
3. 

```
def check(a):
    for i in range(len(a)):
        a[i]=a[i]+5
    return a
b=[1,2,3,4]
c=check(b)
print(c)
```
4. 

```
def calc(u):
    if u%2==0:
        return u+10;
    else:
        return u+2;
def pattern(M,B=2):
    for CNT in range(0,B):
        print(calc(CNT),M,end="");
    print()
    pattern("***")
    pattern("#",4)
    pattern("@",3)
```

```
5. def Convert(X=45,Y=30):  
    X=X+Y  
    Y=X-Y  
    print (X,"&",Y)  
    return X
```

```
A=250  
B=150  
A=Convert(A,B)  
print (A,"&",B)  
B=Convert(B)  
print (A,"&",B)  
A=Convert(A)  
print (A,"&",B)
```

```
6. def Revert(Num,Last=2):  
    if Last%2==0:  
        Last=Last+1  
    else:  
        Last=Last-1  
    for C in range(1,Last+1):  
        Num+=C  
    print(Num)
```

```
A,B=20,4  
Revert(A,B)  
B=B-1  
Revert(B)
```