

```
#q1 Convert given hrs & mins in second
x=float(input("enter  hrs:"))
y=float(input('enter minute:'))
hrs_sec= x*60*60
min_sec= y*60
seconds= hrs_sec+min_sec
print("the given time when converted in seconds is ",seconds)
```

```
enter  hrs:1
enter minute:1
the given time when converted in seconds is  3660.0
```

#Q5 Create class

```
class Maths:
    def __init__ (self,a,b):
        self.a=a
        self.b=b
    def Add(self):
        return self.a+self.b
    def Div(self):
        return self.a/self.b
    def Sub(self):
        return self.a-self.b
    def Mul(self):
        return self.a*self.b
```

```
a=Maths()
```

```
a(5,2)
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-52-52c25bae5c08> in <module>()
----> 1 a(5,2)
```

```
TypeError: 'Maths' object is not callable
```

SEARCH STACK OVERFLOW

'Q9 Accept String & print only alternate characters on a string. Ex: this i s a _ test '

```
a=input("enter a string: ")
print(a[1::2])
```

```
enter a string: this is a test
hsi et
```

Q.10) Create menu driven code for 1) Accept 2 numbers 2) Add 3) Sub 4) Mul 5) Div

```
num1=float(input('enter a number '))
num2=float(input('enter a number '))

print("enter the operation to perform 1 =Add 2=Sub 3=Mul 4=Div")
a =float(input("enter the number of operation you wantt to perform"))
if a==1:
    print(num1+num2)
elif a==2:
    print(num1-num2)
elif a==3:
    print(num1**num2)
elif a==4:
    print(num1/num2)
else:
    print("operation can not be performed invalid number")
```

```
enter a number 10
enter a number 9
enter the operation to perform 1 =Add 2=Sub 3=Mul 4=Div
enter the number of operation you wantt to perform2
1.0
```

Q.6) Read file & count numbers of digit alphabets & symbols (hint one can compare using 'a' < digit < 'z')

```
a=input("enter a string")
d=l=0
for c in a:
    if c.isdigit():
        d=d+1
    elif c.isalpha():
        l=l+1
    else:
        pass
print("letters",l)
print("digits", d)
```

```
enter a stringaditya 0109
letters 1
digits 0
letters 2
```

```
digits 0
letters 3
digits 0
letters 4
digits 0
letters 5
digits 0
letters 6
digits 0
letters 6
digits 0
letters 6
digits 1
letters 6
digits 2
letters 6
digits 3
letters 6
digits 4
```

#q3

```
for i in range(1,6):
    for j in range (1,i+1):
        print(j%2,end=" ")
    print()
```

```
1
1 0
1 0 1
1 0 1 0
1 0 1 0 1
```

#q8

```
a="13567"
for i in range(0,len(a)):
    print(a[i]*(i+1))
```

```
1
33
555
6666
77777
```

#q7 Convert Paise in Rupees & paises

```
x=int(input("enter amount :"))
rupees = x//100
paisa =x%100
print(rupees , "rupees",paisa,"paisa")
```

```
enter amount :350
```

3 rupees 50 paisa

✓ 3s completed at 6:17 PM

