

#3

```
n=int(input("Enter a number:"))
```

```
n=str(n)
```

```
c=0
```

```
for i in n:
```

```
    i=int(i)
```

```
    c+=i
```

```
print("Sum of digits:",c)
```

#4

```
l1=list(map(int,input("Enter a list:").split(",")))
```

```
l2=list(map(int,input("Enter a list:").split(",")))
```

```
if len(l1)==len(l2):
```

```
    l1=set(l1)
```

```
    l2=set(l2)
```

```
    merge=l1&l2
```

```
    print("The merged list is:",list(merge))
```

```
else:
```

```
    print("The lenght of the list should be equal:")
```

#5

```
s=input("Enter a string:")
```

```
count=0
```

```
for j in s:
```

```
    if j.isspace():
```

```
        count+=1
```

```
print("The total words in the string:",count)
```

6

```
l=list(map(int,input("Enter a list:").split(",")))
```

```
n=len(l)
```

```

for i in range(n):
    for j in range(0,n-i-1):
        if l[j]>l[j+1]:
            l[j],l[j+1]=l[j+1],l[j]
print("Sorted list is:",l)

```

#7

```

class BankAccount:
    def __init__(self,acc_holder_name,balance):
        self.acc_holder_name=acc_holder_name
        self.balance=balance
    def deposit(self,amount):
        if amount>0:
            self.balance+=amount
            print(amount,"Rupees deposited successfully. Balance:",self.balance,"Rupees")
    def withdraw(self,amount):
        if amount>0:
            if amount<self.balance:
                self.balance-=amount
                print(amount,"Rupees withdrawn successfully. Balance:",self.balance,"Rupees")
    def check(self):
        print("Account Balance:",self.balance,"Rupees")
acc=BankAccount("Alice",5000)
acc.check()
acc.deposit(7000)
acc.withdraw(2000)

```

#8

```

import re
def check_email(email):
    ex=r'^[a-z A-Z 0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$'

```

```
if re.match(ex,email):
    print("Valid")
else:
    print("Invalid")
email=input("Enter your email:")
check_email(email)
```

#9

```
s=input("Enter a sentence:")
c=""
for i in s:
    if i.isdigit():
        c+=i
print(c)
```

#10

```
st=input("Enter a sentence:")
s=""
for j in st:
    if j!="#":
        s+=j
print(s)
```

#2

```
lst=list(map(int,input("Enter a list:").split(",")))
print(lst)
lst=set(lst)
l=list(lst)
l.sort(reverse=True)
print(l)
```