1.

```
def reverse(s):
    rev = ""
    for i in range(len(s)):
        rev = s[i]+rev
    print(rev)
s = input("Enter a String:\n")
reverse(s)
```

2.

```
def sqList():
    mylist = []
    for i in range(1,21):
        mylist.append(i*i)
    print(mylist)
sqList()
```

3.

```
def isPrime(num):
    if num > 1:
        for i in range(2,num):
            if (num%i)==0:
                return False
        return True
def is_semiPrime(n):
    for d1 in range(2,int(n**0.5)+1):
        if n%d1 == 0:
            d2 = n//d1
            return isPrime(d1) and isPrime(d2) and d1!=d2
    return False
def is_checkNum(n):
    for i in range(2,n):
        if(is_semiPrime(i) and is_semiPrime(n-i)):
            print(i," ",n-i)
            return "Yes"
    return "No"
N = int(input("Enter a number:\n"))
print(is_checkNum(N),end=" ")
```

4.

```
def sentence(s):
    u = 0
    l = 0
    for i in s:
        if i.isupper():
            u += 1
        if i.islower():
            l += 1

    print(u," ",l)
s = input("Enter a Sentence:\n")
sentence(s)
```

5.

```
def second(l):
    l.sort()
    print(l[1],' ',l[-2])

i = int(input("Enter the total no. of Inputs:\n"))
l = []
for j in range(i):
    num = int(input("Enter value: "))
    l.append(num)
second(l)
```

6.

```
def dictionary(n):
    d = {}
    for i in range(1,n+1):
        d[i] = i**3

    return(d)
n = int(input("Enter the no. of Values:\n"))
print(dictionary(n))
```

7.

```
def string(s):
    s += " "
    fin = ""
    for i in range(len(s)-1):
        if s[i] not in "aeiouAEIOU" or s[i+1] not in "aeiouAEIOU":
            fin += s[i]

    return(fin)

s = input("Enter the String:\n")
print(string(s))
```

8.

```
def pushZero(s):
    b = []
    c = 0
    for i in s:
        if i == '0':
            c += 1
        else:
            b.append(i)
    while(c>0):
        b.append("0")
        c -= 1
    for j in range(len(b)-1):
        print(b[j],end=" ")
    print(b[-1])
pushZero(input("Enter the numbers seperated by spaces:\n").split())
```

9.

```
def armStrong(num):
    temp = num
    sum = 0
    s = str(num)
    l = len(s)
    while (num!=0):
        digit = num%10
        sum += digit**l
        num = num //10
    if temp == sum:
        print(temp," is an Armstrong Number")
    else:
        print(temp," is not an Armstrong Number")
n = int(input("Enter the Number\n"))
armStrong(n)
```

10.

```
def special(s):
    for i in s:
        if i.isalnum()== False and i!=" ":
            return True
    return False
if special(input("Enter the String\n")):
    print("Yes")
else:
    print("No")
```