1.write a program to hours into seconds?
```
>>> hours = int(input("Please enter hours:"))
>>> seconds = hours * 60 * 60
>>> print(seconds, " Seconds")
```

2.write a program to convert decimal into binary?
```
>>> # Function to print binary number using recursion
>>> def convertToBinary(n):
>>>    if n > 1:
>>>        convertToBinary(n//2)
>>>    print(n % 2,end = ")

>>> dec =int(input("enter a number"))

>>> convertToBinary(dec)
>>> print("the binary form is:")
```

3.write a program to find word Is singular or plural?
```
 >>> import inflect
>>> inflect = inflect.engine()
>>> english_words= input("enter a word")
>>> if inflect.singular_noun(english_words) == False:
 >>>  print (english_words,"is singular")
>>> else:
>>>    print (english_words,"is plural")
```

4.write a program to find average of given numbers?
```
>>> n=int(input("Enter the total number you want to enter:"))

>>> sum=0

>>> for i in range(n):

>>>    x=int(input("Enter the number:"))

>>>    sum=sum+x

>>>   avg=sum/n

>>>  print("Average=",avg)
```

5.write a program to count number of capital letters of string?
```
 >>> string=raw_input("Enter string:")
>>> count1=0
>>> count2=0
>>> for i in string:
>>>     if(i.islower()):
```

```
>>>          count1=count1+1
>>>      elif(i.isupper()):
 >>>          count2=count2+1
>>> print("The number of lowercase characters is:")
>>> print(count1)
>>> print("The number of uppercase characters is:")
>>> print(count2)
```

6.write a program to find intersection of list?

```
>>> def intersection_list(list1, list2):
>>>    return set(list1).intersection(list2)

>>> list1 = [40, 90, 11, 58, 31, 66, 28, 54, 79]
>>> list2 = [58, 90, 54, 31, 45, 11, 66, 28, 26]

>>> print(intersection_list(list1, list2))
```

7.write a program to create matrix filled with zeroes ?
```
>>> import numpy as np
>>> dimensions=(3,3)
>>> np.zeros(dimensions)
```

8. Write a program to check whether number is divisible by 5 or not ?

```
>>> num = float(input('Enter a number: '))

>>> while (num%5) != 0:
>>>     num = float(raw_input('Please try again: '))
>>> print ('number is divisible by 5')
```

9.Write a program to Remove vowel ?
```
>>> print("Enter the String: ")
>>> text = input()

>>> vowels = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']
>>> newtext = ""
>>> textlen = len(text)

>>> for i in range(textlen):
>>>    if text[i] not in vowels:
>>>        newtext = newtext + text[i]

>>> print("\nString after removing Vowels: ")
>>> text = newtext
>>> print(text)
```
10. Write a program to separate number and English alphabet character from string?
```
>>> def splitString(str):
```

```python
>>>    alpha = ""
>>>    num = ""
>>>    for i in range(len(str)):
>>>        if (str[i].isdigit()):
>>>            num = num+ str[i]
>>>        else:
>>>            alpha += str[i]

>>>    print(alpha)
>>>    print(num )


>>> if __name__ == "__main__":

>>>     str = "prerna12933dhingra56829"
>>>     splitString(str)
```