

**Q.1) Write a Python function to check whether a string is a pangram or not. Note : Pangrams are words or sentences containing every letter of the alphabet at least once. For example : "The quick brown fox jumps over the lazy dog"**

```
s="the quick brown fox jumps over the lazy dog"
```

```
a=set()  
for i in s.lower():  
    if i.isalpha():  
        a.add(i)  
if(len(a)==26):  
    print("pangram")  
else:  
    print("not pangram")
```

```
pangram  
  
Process finished with exit code 0
```

**Q.2) Write a Python program to calculate the sum of the digits in an integer.**

```
n=int(input("Enter a number: "))  
s=0  
while n>0:  
    s=s+n%10  
    n=n//10  
print("sum is ",s)
```

```
Enter a number: 12345  
sum is  15  
  
Process finished with exit code 0
```

**Q.3) Write a Python program to sort three integers without using conditional statements and loops. [ u can use built in functions for this ]**

```
a=3  
b=1  
c=2  
print("after sorting ",sorted([a,b,c]))
```

```
after sorting  [1, 2, 3]  
Process finished with exit code 0
```

**Q.4) Write a Python function to check whether a number is perfect or not.**

```
n=int(input("Enter a number: "))  
m=0  
for i in range(1, n):  
    if n % i == 0:  
        m=m+i  
if m==n:  
    print("Number is perfect")  
else:  
    print("Number is not perfect")
```

```
Enter a number: 6  
Number is perfect  
  
Process finished with exit code 0
```