

REFERENCE:

Python Program to check if a Number is Positive, Negative or 0

```
x = int(input("Enter no. = "))  
if x > 0:  
    print("No. is +ve")  
elif x < 0:  
    print("No. is -ve")  
else:  
    print("No. is zero")
```

Output:

Enter a number: 2

Positive number

Python program to check if the input number is odd or even

A number is even if division by 2 gives a remainder of 0.

If the remainder is 1, it is an odd number.

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

```
if (num % 2) == 0:
```

```
    print("{0} is Even".format(num))
```

```
else:
```

```
    print("{0} is Odd".format(num))
```

Output:

Enter a number: 43

43 is Odd

Program to separate even and odd nos. from array

```
a = [42,45,4,6,7,9,22]
even = []
odd = []

for i in a:
    if i%2 == 0:
        even.append(i)
    else:
        odd.append(i)
print("Even nos. list",even)
print("Odd nos. list",odd)
```

Output:

Even nos. list [42, 4, 6, 22]

Odd nos. list [45, 7, 9]

Program to separate even and odd nos. from array

```
a = [42,45,4,6,7,9,22]
even = []
odd = []
i = 0
while i < len(a):
    if a[i]%2 == 0:
        even.append(a[i])
    else:
        odd.append(a[i])
    i += 1
print("Even nos. list",even)
print("Odd nos. list",odd)
```

Output:

Even nos. list [42, 4, 6, 22]

Odd nos. list [45, 7, 9]

Practice problem

Solve: Program to separate positive and negative numbers from array using while and for loop

Solve: Program to check if the number is greater than, less than or equals to the given number

Solve: Program to check whether the alphabet is vowel , constant or not a alphabet