

Q1) wap ask the user enter a number and get the square of the number the user should enter 5 values one by one the prompt should ask 5 times

```
In [6]: i = 1
while i<6:
    num = eval(input("Enter a Number"))
    print(f"The square of {num} is {num*num} ")
    i += 1
```

The square of 4 is 16
 The square of 5 is 25
 The square of 6 is 36
 The square of 7 is 49
 The square of 8 is 64

Q2) wap ask the user enter 5 numbers print it is a even number or odd loop should run 5 times code should ask 5 times enter the number

```
In [7]: i = 1
while i<=5:
    num = eval(input("Enter a Number"))
    if num%2==0:
        print("Even Number")
    else:
        print("Odd Number")
    i+=1
```

Even Number
 Odd Number
 Even Number
 Even Number
 Odd Number

Que 3) wap ask the user print 7th table o/p 7x1=7 7x2=14

```
In [4]: i = 1
num= eval(input("Enter a number:- "))
while i<=10:
    print(f"{num}*{i} = {num*i}")
    i+=1
```

7*1 = 7
 7*2 = 14
 7*3 = 21
 7*4 = 28
 7*5 = 35
 7*6 = 42
 7*7 = 49
 7*8 = 56
 7*9 = 63
 7*10 = 70

Que:-4 WAP ask the user enter the number and find the divisors of the number 75
 ==> 1,3,5,15,75

```
In [2]: num = eval(input("Enter a Number:-"))
i = 1
while i<=num:
    if num%i==0:
        print(f"{i} is a divisor for {num}")
    i+=1
```

1 is a divisor for 75
 3 is a divisor for 75
 5 is a divisor for 75
 15 is a divisor for 75
 25 is a divisor for 75
 75 is a divisor for 75

Q5) wap ask the user print first 10 natural numbers $1+2+3+4+5+6+7+8+9+10=55$

```
In [11]: i = 1
summ=0
while i<=10:
    summ=summ+i
    print(summ)
    i+=1
```

1
 3
 6
 10
 15
 21
 28
 36
 45
 55

Que:-6 wap ask the user find the count of divisors

```
In [5]: num = eval(input("Enter a Number:-"))
count=0
i = 1
while i<=num:
    if num%i==0:
        count=count+i
        print(f"{i} is a divisor for {num}")
    i+=1
print(f"The count of the divisor is:- {count}")
```

1 is a divisor for 75
 3 is a divisor for 75
 5 is a divisor for 75
 15 is a divisor for 75
 25 is a divisor for 75
 75 is a divisor for 75
 The count of the divisor is:- 124

Que 7:- wap ask the user to enter a number 5 times the loop should ask 5 times you should calculate even odd get the count of even and count of odd number

```
In [2]: even_count,odd_count=0,0
even_summ,odd_summ=0,0
```

```
i = 1
while i<=5:
    num = eval(input("Enter number :- "))
    if num%2==0:
        even_count = even_count+1
        even_summ = even_count+even_count
        print("Even")
    else:
        odd_count=odd_count+1
        odd_summ=odd_count+odd_count
        print("Odd")
    i+=1
print(f"The even sum is :- {even_count}")
print(f'The total of count is:- {even_summ}')
print(f'The odd sum is :- {odd_count}')
print(f'The total of odd count is :- {odd_summ}')
```

Odd
Odd
Even
Odd
Odd
The even sum is :- 1
The total of count is:- 2
The odd sum is :- 4
The total of odd count is :- 8