

Q1).WAP ask the user print the square of the numbers from 1 to 5

```
In [1]: i=1
        while i<6:
            print(i,end=' ')
            i=i+1
```

1 2 3 4 5

Q2). WAP ask the user take 5 random numbers between 10 to 100 /n and print the square of the random numbers

```
In [3]: import random
        i=1
        while i<6:
            num=random.randint(10,100)
            print(f"the number is:{num} and square is:{num*num}")
            i=i+1
```

the number is:98 and square is:9604
the number is:73 and square is:5329
the number is:12 and square is:144
the number is:19 and square is:361
the number is:90 and square is:8100

Q3). WAP ask the user take 5 random numbers between 10 to 100 /n and print the square of the random numbers Q3).Create a function on reuse code lines call that function inside the for loop

```
In [3]: import random
        def square():
            num=random.randint(1,100)
            squ=num*num
            return(f"the number is: {num} and their square is: {squ}")
        ans=square()
        i=1
        while i<5:
            print(ans)
            i=i+1
```

the number is: 82 and their square is: 6724
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the number is: 82 and their square is: 6724

Q4).wap ask the user enter a value from keyboard 5 times /print that value is even or odd

```
In [6]: i=1
        while i<6:
            num=eval(input("enter number:"))
            if num%2==0:
```

```

        print(f"the number is even.")
    else:
        print(f"the number is odd.")
    i=i+1

```

the number is odd.
the number is even.
the number is even.
the number is odd.
the number is odd.

6)Wap to create 9th table

```

In [7]: i=1
        while i<11:
            print(f"9*{i}={9*i}")
            i=i+1

```

9*1=9
9*2=18
9*3=27
9*4=36
9*5=45
9*6=54
9*7=63
9*8=72
9*9=81
9*10=90

7Q) WAP to print the divisors of enter value

```

In [9]: num=eval(input("Enter the number:"))
        i=1
        while i<num+1:
            if num%i==0:
                print(f"the divisor is:{i}")
            i=i+1

```

the divisor is:1
the divisor is:2
the divisor is:5
the divisor is:10
the divisor is:25
the divisor is:50

Q8) WAP print the sum of first 10 natural numbers

```

In [13]: count=0
         i=1
         while i<11:
             count=count+i
             i=i+1
         print(f"the sum of natural number is:{count}")

```

the sum of natural number is:55

Q9) WAP to print the divisors of enter value and count it.

```
In [ ]: num=eval(input())
count=0
i=1
while i<num+1:
    if num%i==0:
        count=count+1
        i=i+1
        print(count)
print(f"the divisor is:{num} and total number of divisor:{count} ")
```

10Q) Ask the user enter one number from keyboard and ask the user get the second number randomly from 1 to 10 if num1 == num2 then print you won otherwise print you lost. Iterate these lines 3 times

```
In [7]: import random
i=1
while i<5:
    num1=eval(input("Enter the number:"))
    print(num1)
    num2=random.randint(1,10)
    i=i+1
    if num1==num2:
        print(f"you win the match.")
        break
    else:
        print(f'you loose the match.')
```

```
5
you loose the match.
2
you loose the match.
9
you loose the match.
6
you loose the match.
```

Case-2: give 5 chances

- whenever fail print the number of chances leftn/

case-3: Suppose your all chances are over

- print your account locked try after 24hours

```
In [ ]: import random
import time
count=0
i=1
```

```
while i<6:
    num1=eval(input("Enter the number:"))
    num2=random.randint(1,10)
    i=i+1
    if num1==num2:
        print(f"you win the match.")
        break
    else:
        print(f'you loose the match.')
        count=count+1
        print(f"Alert!, {5-count} is only left.")
        if count==5:
            print(f"your account is blocked for 24 hours")
            time.sleep(284)
            print(f"you can play match.")
```

```
you loose the match.
Alert!, 4 is only left.
you loose the match.
Alert!, 3 is only left.
you loose the match.
Alert!, 2 is only left.
you loose the match.
Alert!, 1 is only left.
you loose the match.
Alert!, 0 is only left.
your account is blocked for 24 hours
```

In []: