

Qn1:- prime number

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

if num <= 1:
    print(num, "is not a prime number.")
else:
    is_prime = True
    i = 2

    while i <= num // 2:
        if num % i == 0:
            is_prime = False
            break
        i += 1

    if is_prime:
        print(num, "is a prime number.")
    else:
        print(num, "is not a prime number.")
```

Qn2:- palindrome

```
input_number=int(input("enter your input"))
temp=input_number
reverse=0
while input_number>0:
    digit=input_number%10
    reverse=reverse*10+digit
    input_number=input_number//10

print(reverse)
if temp==reverse:
    print("yes its palindrome")
else:
    print("noo its not a palindrome")
```

Qn3:- factors of a number

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

i = 1

print("Factors are:")
while i <= num:
    if num % i == 0:
        print(i)
    i += 1
```

Qn4:-multiplication table

```
num=int(input("enter the number"))
i=1
while i<=10:
    product=num*i
    print(num,"x",i,"=",product)
    i+=1
```