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Q1)#1. Write a program to print the sum of the first
#10 number

```
sum=0
for x in range(1,11):
    sum=sum+x
print(sum)
```

Q2)# Write a program to print the product of the
first 10 numbers

```
product=1
for x in range(1,11):
    product=product*x
print(product)
```

Q3)#Write a program to calculate the factorial of
#the given number

```
fact=1
n=int(input("Enter the number to calculate factorial: "))
for x in range(1,n+1):
    fact=fact*x
print(f"factorial of {n} is {fact} ")
```

Q4)# Write a program to check whether the
number is Armstrong's number or not. (371)

```
n=int(input("Enter the number to check armstrong or not!"))
print(len(str(n)))
sum=0
t=n
length=len(str(n))
while n>0:
    rem=n%10
    sum=sum+rem**length
    n=n//10
    temp=sum
print(temp)
if temp==t:
    print(t,"is armstrong number")
else:
    print(t,"is not armstrong number")
```

Q5)# Write a program to check whether the
number is a Strong number or not. (145)

```
n=int(input("Enter the number to check is this strong number or not: !"))
t=n
sum=0
while n>0:
    fact=1
    rem=n%10
    for x in range(1,rem+1):
        fact=fact*x
    sum=sum+fact
    n=n//10
```

```
if sum==t:  
    print(t,"is strong number")  
else:  
    print(t,"is not strong number")
```