

Q.WPP to accept thr age gender and number of date and display wiges the according to given

Age	gender	wages/day
>=18 and < 30	M	700
	F	750
>=30 and <=40	M	800
	F	850

```
In [10]: age=int(input("Enter your age:"))
gender=input("Enter your gender M or F:")
days=int(input("Enter no of days:"))

if age>=18 and age<30:
    if gender=='m' or gender=='M':
        print(days*700)
    elif gender=='f' or gender=='F':
        print(days*750)
    else:
        print("Enter valid input")
elif age>=30 and age<=40:
    if gender=='m' or gender=='M':
        print(days*800)
    elif gender=='f' or gender=='F':
        print(days*850)
    else:
        print("Enter valid input")
else:
    print("Enter valid age( 18 to 40)")
```

```
Enter your age:32
Enter your gender M or F:m
Enter no of days:34
27200
```

Q. WPP to accept 3 sides of tringle and check wheather it is Equilateral,Isosceles,Scalen triangle

```
In [15]: a=int(input("Enter side 1:"))
b=int(input("Enter side 2:"))
c=int(input("Enter side 3:"))
if a==b==c:
    print("Equilateral triangel")
elif a==b or b==c or a==c:
    print("Isosceles triangel")
else:
    print("Scalen triangel")
```

```
Enter side 1:1
Enter side 2:1
Enter side 3:4
Isosceles triangel
```

Q. sum of user 0 to number

```
In [23]: n=int(input("Enter number:"))
sum=0
for i in range(n):
    sum=sum+i+1
print(sum)
```

```
Enter number:6
21
```

Q. take number of input from user give avg

```
In [30]: n=int(input("Enter number:"))
sum=0
r=n
i=1
while n>0:
    sum=sum+int(input(f"Enter val {i}:"))
    n=n-1
    i=i+1
print(sum/r)
```

Enter number:5
 Enter val 1:1
 Enter val 2:2
 Enter val 3:3
 Enter val 4:4
 Enter val 5:5
 3.0

Q. addition of given number

eg 2345 2+3+4+5

```
In [35]: n=int(input("Enter number:"))
sum=0
while n>0:
    sum=sum+n%10
    n=n//10
print(f"sum={sum}")
```

Enter number:4356
 sum=18

In []: Q.reversed number

```
In [56]: n=input("Enter number:")
# print(n[::-1])
# for i in range(len(n)-1, -1, -1):
#     print(n[i],end="")

rev=0
print()
n=int(n)
while n!=0:
    rev=rev*10+n%10
    n//=10
print(rev)
```

Enter number:123
 321
 321
 321

Q.WPP to armstrong or not

```
In [47]: n=input("enter number:")
l=len(n)
n=int(n)
r=n
sum=0;
while n>0:
    sum=sum+((n%10)**l)
    n=n//10
print(sum)
if sum==r:
```

```

    print("armstrong")
else:
    print("Not armstromg")

```

enter number:153
153
armstrong

Q.prime or not

```

In [57]: n=int(input("Enter number:"))
        b=True
        for i in range(2,n//2):
            if n%i==0:
                b=False
                print("Not Prime")
                break
        if b:
            print("Prime")

```

Enter number:567
Not Prime

Q. prime number between numbers

```

In [67]: s=int(input("Enter start number:"))
        e=int(input("Enter end number:"))
        c=0
        for j in range(s,e):
            b=True
            for i in range(2,j//2+1):
                if j%i==0:
                    b=False
                    break
            if b:
                print(j)
                c=c+1
        print("COUNT=",c)

```

Enter start number:2
Enter end number:100
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
COUNT= 25

Q. happy number

```
In [8]: n=int(input("Enter number:"))

while True:
    sum=0
    while n!=0:
        sum=sum+(n%10)**2
        n=n//10
    if sum==1:
        print("Happy number")
        break
    if sum==4:
        print("Not Happy number")
        break
    n=sum
```

Enter number:333

Not Happy number

In []: