

*# 1) WAP that checks whether the given number is odd or even.*

```
num=int(input("Enter a number."))
if (num%2==0):
    print(num,"is even")
else:
    print(num,"is odd")
```

Enter a number. 8

8 is even

*# 2) WAP to calculate the compound interest.*

```
p = int(input("Enter the principal. "))
t = int(input("Enter the time. "))
r = int(input("Enter the rate. "))
ci = (p*(1 + (r / 100)) ** t)
print("The compound interest is", ci)
```

Enter the principal. 1000

Enter the time. 2

Enter the rate. 10

The compound interest is 1210.00000000000002

*# 3) WAP to check if a given number is divisible by both 3 and 7.*

```
num=int(input("Enter a number. "))
if(num%3==0 and num%7==0):
    print(num,"is divisible by both 3 and 7.")
else:
    print(num,"is divisible by both 3 and 7.")
```

Enter a number. 21

21 is divisible by both 3 and 7.

*# 4) WAP that calculates the perimeter of a rectangle.*

```
l=int(input("Enter the length. "))
b=int(input("Enter the breadth. "))
p=2*(l+b)
print("The perimeter of the rectangle is:",p)
```

Enter the length. 10

Enter the breadth. 5

The perimeter of the rectangle is: 30

*# 5) WAP that checks if a given year is a leap year or not.*

```
year=int(input("Enter a year. "))
if(year%4==0 and year%400==0):
    print(year,"is a leap year")
elif(year%4==0 and year%100!=0):
    print(year,"is a leap year")
```

```
else:  
    print(year,"is not a leap year")
```

Enter a year. 1900

1900 is not a leap year

*# 6) WAP that takes a number as input and prints it's absolute value.*

```
num=int(input("Enter a number."))  
if(num<0):  
    print("The absolute value of",num,"is",-num)  
else:  
    print("The absolute value of",num,"is",num)
```

Enter a number. -79

The absolute value of -79 is 79