

**Study Notes on**  
**M-15**  
**Simple Programs related with Arithmetic Calculations**  
**Class -XI**

*Prepared by : Sona O K*

1. Write a program to convert temperature in degree Celsius to degree Fahrenheit

Hint:  $T(^{\circ}F) = T(^{\circ}C) \times \frac{9}{5} + 32$

**Program Code**

```
#program to convert temperature in degree Celsius to Fahrenheit
c=float(input("enter the temperature in Celsius"))
F=c*9/5+32
print("Temperature in Fahrenheit=",F)
```

**Output**

```
Enter the temperature in celcius37
Temperature in Fahrenheit= 98.6
```

2. Write a program to calculate the amount payable if money has been lent on simple interest principal or Money lent =P, Rate of interest=R% per annum, Time= T years

Then simple interest  $SI = P \times R \times T / 100$

Amount payable= Principal+ SI

**Program Code**

```
#program to Calculate Amount Payable
P=int(input("Input Principal Ampunt"))
R=int(input("Input Rate of Interest"))
T=int(input("Input Time in Years"))
SI=P*R*T
AP=P+SI
print("Amount payable=",AP)
```

### **Output**

Input Principal Ampunt1000  
Input Rate of Interest10  
Input Time in Years2  
Amount payable= 21000

3. Write a program to swap two numbers without using a third variable

### **Program Code**

```
#program to Swap the ciontents of two variables without using the third  
variable  
A=int(input("Input a Number"))  
B=int(input("Input a Number"))  
print("Before swapping", "A=",A,"b=",B)  
A=A+B  
B=A-B  
A=A-B  
print("After swapping", "A=",A,"b=",B)
```

### **Output**

Input a Number10  
Input a Number20  
Before swapping A= 10 b= 20  
After swapping A= 20 b= 10

\*\*\*\*\*