NAME: Sunam kundal
ENROLLMENT: 2022BCSE039

1. Write a program that calculate and prints simple interest. Take the principle amount, rate and time from the user input.

   CODE:-

```
#Wap that converts a given number
p=float(input("enter the principal Value :"))
r=float(input("enter the Rate: "))
t=int(input("enter the Time: "))
si=(p*r*t)/100
print("Simple interset is: ",si)
```

   OUTPUT:-

```
PS C:\Users\sunam\Downloads\Python Lab> python -u "c:\Users\sunam\Downloads\Python Lab\Lab 1\1.py"
enter the principal Value :2000
enter the Rate: 5
enter the Time: 1
Simple interset is:  100.0
```

2. WAP that calculates the BMI based on user's weight and height.

   CODE:-

```
weight=float(input("Enter the  weight in KG : "))
height=float(input("Enter the height in meters: "))
bmi=weight/(height*height)
print("Your BMI is:",bmi)
```

   OUTPUT:-

```
PS C:\Users\sunam\Downloads\Python Lab> python -u "c:\Users\sunam\Downloads\Python Lab\Lab 1\2.py"
Enter the  weight in KG : 70
Enter the height in meters: 1.7
Your BMI is: 24.221453287197235
PS C:\Users\sunam\Downloads\Python Lab>
```

3. WAP that swaps the value of two variables.

   CODE:-

```
#swaps of two  number
num1=int(input("enter the first number "))
num2=int(input("enter the second number "))
print("Before swap:")
print("first number",num1)
print("second number",num2)
```

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```
num1=num1+num2
num2=num1-num2
num1=num1-num2
print("After swap:")
print("first number",num1)
print("second number",num2)
```

OUTPUT:-

```
PS C:\Users\sunam\Downloads\Python Lab> python -u "c:\Users\sunam\Downloads\Python Lab\Lab 1\3.py"
enter the first number 10
enter the second number 20
Before swap:
first number 10
second number 20
After swap:
first number 20
second number 10
```

4. WAP that swaps the value of two variabls using temporary variable.

CODE:-

```
#swaps of two  number
num1=int(input("enter the first number "))
num2=int(input("enter the second number "))
print("Before swap:")
print("first number",num1)
print("second number",num2)
temp=num1
num1=num2
num2=temp
print("After swap:")
print("first number",num1)
print("second number",num2
```

OUTPUT:-

```
PS C:\Users\sunam\Downloads\Python Lab> python -u "c:\Users\sunam\Downloads\Python Lab\Lab 1\4.py"
enter the first number 10
enter the second number 20
Before swap:
first number 10
second number 20
After swap:
first number 20
second number 10
```

5. WAP that converts a given number of days into years and weeks.

CODE:-

NAME: Sunam kundal
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```
days=int(input("Enter the number of days : "))
years=int(days/365)
days-=years*365
weeks=int(days/7)
days-=weeks*7
print("Years: ",years)
print("weeks : ",weeks)
print("days: ",days)
```

OUTPUT:-

```
PS C:\Users\sunam\Downloads\Python Lab> python -u "c:\Users\sunam\Downloads\Python Lab\Lab 1\5.py"
Enter the number of days : 375
Years:  1
weeks :  1
days:  3
```