Question 1:- Program to find sum of two Numbers

```
n1=int(input("Enter first Number:-"))
n2=int(input("Enter Second Number:-"))
add=n1+n2
print(f"Sum of {n1} + {n2} = {add}")

Enter first Number:- 5
Enter Second Number:- 10

Sum of 5 + 10 = 15
```

Question 2:- Program to find area and circumference of circle.(area=Pi * r * r and Circumfrence=2 * pi * r)

```
r=int(input("Enter the radious:-"))
area=3.14*r*r
cir=2*3.14*r
print(f"Area of Circle = {area} .")
print(f"Circumfrence of circle = {cir} .")

Enter the radious:- 5

Area of Circle = 78.5 .
Circumfrence of circle = 31.400000000000002 .
```

Question 3:- Program to find Simple Interest. (SI=(Principal Amount * Rate of Interst * time)/100)

```
p=int(input("Enter the Principal Amount:-"))
r=int(input("Enter the Rate of Interst:-"))
t=int(input("Enter the Time:-"))

SI=(p*r*t)/100
print(f"Simple Interst = {SI} .")
```

```
Enter the Principal Amount:- 10000
Enter the Rate of Interst:- 5
Enter the Time:- 2

Simple Interst = 1000.0 .
```

Question 4:- Program to convert temperature from degree centigrade to Fahrenheit.(f=(1.8 * c) + 32)

```python
c=float(input("Enter Degree in Centigrade:-"))
f=(1.8 * c)+32
print(f"{c} Degree Centigrade = {f} Degree Fahrenheit. ")

Enter Degree in Centigrade:- 32

32.0 Degree Centigrade = 89.6 Degree Fahrenheit.
```

Question 5:- Program to calculate sum of 5 subject and find percentage.

```python
name=input("Enter Student Name:-")
n=int(input("Enter Number of Subject:-"))
m=n
mark_name={}
for i in range(1,n+1):
    sub_name=input(f"Enter {i} Subject Name:-")
    marks=float(input("Enter Marks:-"))
    mark_name[sub_name]=marks
add=0
for j in mark_name:
    add=add+mark_name[j]

print(f"Student Name is - {name} .")
print("Subject Name            Marks")
for key, value in mark_name.items():
    print(f"{key}                    {value}")
```

```
print("Total Marks:-", add)
print("Percentage is :-",add/m)
```

```
Enter Student Name:- Sushil Kushwaha
Enter Number of Subject:- 5
Enter 1 Subject Name:- Hindi
Enter Marks:- 78
Enter 2 Subject Name:- English
Enter Marks:- 69
Enter 3 Subject Name:- Mathe
Enter Marks:- 87
Enter 4 Subject Name:- Physices
Enter Marks:- 69
Enter 5 Subject Name:- Chemistry
Enter Marks:- 87

Student Name is - Sushil Kushwaha .
Subject Name              Marks
Hindi                     78.0
English                    69.0
Mathe                     87.0
Physices                   69.0
Chemistry                   87.0
Total Marks:- 390.0
Percentage is :- 78.0
```

Question 6:-Program to Reverse a given number.

```
n=int(input("Enter More Than Two Digit Number:-"))
m=n
s=0
while n>0:
    rem=n%10
```

```
    s=s*10+rem
    n=n//10

print(f"Reverse of {m} is - {s}")

Enter More Than Two Digit Number:- 12345

Reverse of 12345 is - 54321
```

Question 7:-Program to show swap of two Number without using third variable.

```
num1=int(input("Enter First Number:-"))
num2=int(input("Enter Second Number:-"))

print(f"Before swapping: num1 = {num1}, num2 = {num2}")

num1, num2 = num2, num1

print(f"After swapping: num1 = {num1}, num2 = {num2}")

Enter First Number:- 6
Enter Second Number:- 4

Before swapping: num1 = 6, num2 = 4
After swapping: num1 = 4, num2 = 6
```

Question 8:- Program to find gross salary. (da,ta,hra,)

```
bs=float(input("Enter Your Base Salary:-"))
ta=float(input("Enter Your TA:-"))
da=float(input("Enter Your DA:-"))
hra=float(input("Enter Your HRA:-"))
DA=bs*da/100
TA=bs*ta/100
HRA=bs*hra/100
gs=DA+TA+HRA+bs
```

```
print("Summary of Your Salary:-")
print("Bass Salary:-",bs)
print(f"{ta} % of Your TA is:- {TA} ")
print(f"{da} % of Your TA is:- {DA} ")
print(f"{hra} % of Your TA is:- {HRA} ")
print("Your Gross Salary:-",gs)

Enter Your Base Salary:- 10000
Enter Your TA:- 10
Enter Your DA:- 5
Enter Your HRA:- 25

Summary of Your Salary:-
Bass Salary:- 10000.0
10.0 % of Your TA is:- 1000.0
5.0 % of Your TA is:- 500.0
25.0 % of Your TA is:- 2500.0
Your Gross Salary:- 14000.0
```

Question 9(a):- Program to print a Table of any number.

```
n=int(input("Enter the Number, You want to print Table:-"))
for i in range(1,11):
    tab=i*n
    print(tab)

Enter the Number, You want to print Table:- 10

10
20
30
40
50
60
70
80
```

```
90
100
```

Question 9(b):- Program to print a Table from 1 to n number.

```python
n=int(input("Enter the Number:-"))
for i in range(1,11):
    for j in range(1,n+1):
        print(f"{i} X {j} ={i*j}" , end="\t")
    print("")
```

```
Enter the Number:- 5
```

```
1 X 1 =1    1 X 2 =2    1 X 3 =3    1 X 4 =4    1 X 5 =5
2 X 1 =2    2 X 2 =4    2 X 3 =6    2 X 4 =8    2 X 5 =10
3 X 1 =3    3 X 2 =6    3 X 3 =9    3 X 4 =12   3 X 5 =15
4 X 1 =4    4 X 2 =8    4 X 3 =12   4 X 4 =16   4 X 5 =20
5 X 1 =5    5 X 2 =10   5 X 3 =15   5 X 4 =20   5 X 5 =25
6 X 1 =6    6 X 2 =12   6 X 3 =18   6 X 4 =24   6 X 5 =30
7 X 1 =7    7 X 2 =14   7 X 3 =21   7 X 4 =28   7 X 5 =35
8 X 1 =8    8 X 2 =16   8 X 3 =24   8 X 4 =32   8 X 5 =40
9 X 1 =9    9 X 2 =18   9 X 3 =27   9 X 4 =36   9 X 5 =45
10 X 1 =10 10 X 2 =20 10 X 3 =30 10 X 4 =40 10 X 5 =50
```

Question 10:- Program to find Greatest in 3 number.

```python
num1=int(input("Enter First Number:-"))
num2=int(input("Enter Second Number:-"))
num3=int(input("Enter third Number:-"))

if num1>num2 and num1>num3:
    print(f"{num1} is greatest.")
elif num2>num1 and num2>num3:
    print(f"{num2} is greatest.")
```

```
else:
    print(f"{num3} is greatest.")

Enter First Number:- 5
Enter Second Number:- 6
Enter third Number:- 2

6 is greatest.
```

Question 11:- Program to show the use of conditional operator.

```
num1=int(input("Enter First Number:-"))
num2=int(input("Enter Second Number:-"))

Max_value= num1 if num1>num2 else num2
print(f"The Largest Number between {num1} and {num2} is {Max_value}")

Enter First Number:- 6
Enter Second Number:- 9

The Largest Number between 6 and 9 is 9
```

Question 12:- Program to find that entered year is leap year or not.

```
year=int(input("Enter the year:-"))
if year%400==0:
    print("This is leap Year")
elif year%4==0:
    print("This is Leap Year")
elif year%100==0:
    print("This is  Leap Year")
else:
    print("This Is Not Leap year")

Enter the year:- 2025
```

```
This Is Not Leap year
```

Question 13:- Program to find whether given number is even or odd.

```python
num1=int(input("Enter Number:-"))
if num1%2==0:
    print(f"Number {num1} is Even")
else:
    print(f"Number {num1} is Odd")

Enter Number:- 5

Number 5 is Odd
```

Question 14:- Program to shift inputed data by two bits to left.

```python
num1=int(input("Enter   Number:-"))

left_shift= num1<<2
right_shift=num1>>2


print(f"The result of Shifting {num1} by two bits to the left is {left_shift} ")
print(f"The result of Shifting {num1} by two bits to the right is {right_shift} ")

Enter  Number:- 5

The result of Shifting 5 by two bits to the left is 20
The result of Shifting 5 by two bits to the right is 1
```

Question 15:- Program to use switch statement. display monday to sunday.

```python
# Python doesn't have a direct switch statement like some other languages

def display_days(day_number):
```

```python
    days = {
        1: "Monday",
        2: "Tuesday",
        3: "Wednesday",
        4: "Thursday",
        5: "Friday",
        6: "Saturday",
        7: "Sunday"
    }

    if day_number in days:
        print(f"Day {day_number}: {days[day_number]}")
    else:
        print("Invalid day number. Please enter a number between 1 and 7.")


day_number = int(input("Enter a day number (1-7): "))
display_days(day_number)


Enter a day number (1-7):  5

Day 5: Friday
```

Question 16:-Program to display arithmatic operater using switch case.

```python
# Python doesn't have a direct switch statement like some other languages

def arithmetic_operation(operator, num1, num2):
    if operator == '+':
        return num1 + num2
    elif operator == '-':
        return num1 - num2
    elif operator == '*':
```

```python
        return num1 * num2
    elif operator == '/':
        if num2 != 0:
            return num1 / num2
        else:
            return "Error: Division by zero"
    else:
        return "Invalid operator"


operator = input("Enter an arithmetic operator (+, -, *, /): ")
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
result = arithmetic_operation(operator, num1, num2)
print(f"{num1} {operator} {num2} = {result}")


Enter an arithmetic operator (+, -, *, /):  +
Enter the first number:  56
Enter the second number:  43

56 + 43 = 99
```

Question 17:- Program to display first 10 natural number and their sum.

```python
sum=0
print("This is First 10 Natural Number")
for i in range(1,11):
    sum=sum+i
    print(i)

print("This is Sum of First 10 Natural Number:-",sum)

This is First 10 Natural Number
1
```

```
2
3
4
5
6
7
8
9
10
This is Sum of First 10 Natural Number:- 55
```

Question 18:- Program to print stars sequence 1.

```python
n=int(input("Enter Number,You want to print Stars:-"))
for i in range(1,n+1):
    for j in range(i):
        print("*", end="")
    print("")
```

```
Enter Number,You want to print Stars:- 5

*
**
***
****
*****
```

Question 19:- Program to print stars sequence 2.

```python
n=int(input("Enter Number:-"))
for i in range(1,n+1):
    for j in range(i):
        print(i, end="")
    print("")
```

Question 20:- Program to print stars sequence 3.

```python
n=int(input("Enter Number,You want to print Stars:-"))
for i in range(n,0,-1):
    for j in range(1,i+1):
        print(j, end="")
    print("")
```

```
12345
1234
123
12
1
```