**Question 1:**

Build a simple calculator program. Give user four options :

1. Do you want to add 2 numbers

2. Do you want to multiply 2 numbers

3. Do you want to subtract 2 numbers

4. Do you want to divide 2 numbers

5 . Exit

If user enters 1,2,3 or 4 . Ask the user for two numbers .

Then print the result .

 (Note if user has selected 1 then you need to add, if user has selected 2 , then you need to multiply and so on)

If user has selected 5 , then you need to exit the program.

**Output:**

1. Do you want to add 2 numbers

2. Do you want to multiply 2 numbers

3. Do you want to subtract 2 numbers

4. Do you want to divide 2 numbers

5 . Exit

Please enter your choice : 2

Please enter first number : 100

Please enter second number : 56

Result is : 5600

1. Do you want to add 2 numbers

2. Do you want to multiply 2 numbers

3. Do you want to subtract 2 numbers

4. Do you want to divide 2 numbers

5 . Exit

Please enter your choice : 3

Please enter first number : 20

Please enter second number : 5

Result is : 15

1. Do you want to add 2 numbers

2. Do you want to multiply 2 numbers

3. Do you want to subtract 2 numbers

4. Do you want to divide 2 numbers

5 . Exit

Please enter your choice : 5

Exiting the program. Thank .you

**Question 2:**

In mathematics, the Fibonacci numbers are the numbers in the following integer sequence:

**0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144 ..............................**

Note that each number in the sequence is the sum of previous two numbers .

Eg : 144 = 55+89

       89 = 55+34

       55 = 34+21

       34 = 21+13

       21 = 13+8

       13 = 8+5

       8 = 5+3

       5 = 3+2

       3= 2+1

       2= 1+1

       1=1+0

Your program should print the first 100 numbers in this fibonacci series.

(Note: that above given sequence has only 13 numbers in it)

(Hint: Use while loop which will run 100 times, and use addition property of fibonacci numbers)

**Question 3:**

Keep taking input from user in form of integer, until he enters -1 . Once he enters -1 , exit the program and print sum of all the integers.

**Output:**

Please enter a number (-1 to exit):  10

Please enter a number (-1 to exit):  5

Please enter a number (-1 to exit):  6

Please enter a number (-1 to exit):  4

Please enter a number (-1 to exit):  9

Please enter a number (-1 to exit):  -1

Sum of all the numbers entered is : 34