#### OOPS CONCEPT

**SUB TOPIC** - [class& object ]

## Question: 1

Create a class with name Date of Birth(DOB) that accepts & stores the Date of Birth of a Person ,Calculate age of the person as on current date ,print the age of the person in years ,months,days

## Class name -DOB

## Variable -

BDate: int
BMonth: int
BYear: int
AgeDays: int
AgeMonths: int
AgeYears: int

## Method & return type

GetDOB(): Void

CalculateAge(): Void

DisplayAge(): Void

## **INPUT:**

```
■ D:\asp.net\asp.net core\ConsoleApp5\bin\Debug\Con
Enter Birth Day of a person = 20
Enter Birth Month of a person = 11
Enter Birth Year of a person = 1997
```

## **OUTPUT:**

```
■ D:\asp.net\asp.net core\ConsoleApp5\bin\Debug\ConsoleApp5.

Enter Birth Day of a person = 20

Enter Birth Month of a person = 11

Enter Birth Year of a person = 1997

Age of the person is = 26 Years 3 Months 6 Days
```

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### **QUESTION: 2**

Create a class to store details of a book & print the details to the user?

Here

Class name - BOOK

Variable -

ISBN : string BName: string AName : string PNmae : string MRP: double

#### Method -

GetData(): non-return type void Displaydata(): non-return type void

## <mark>Input :</mark>

## **Output:**

```
-----Get Data-----
Enter ISBN = 4444
Enter Book Name = Who is Shiva
Enter Book Author Name = Sumit Nigam
Enter Book Publisher Name = mr raaz nigam
Enter MRP of the book = 999
Enter ISBN = 6767
Enter Book Name = Kaliyug
Enter Book Author Name = mr raaz nigam
Enter Book Publisher Name = anshu
Enter MRP of the book = 1000
   ------Display Data-----
ISBN of the book is = 4444
Book name is = Who is Shiva
Book Author Name is = Sumit Nigam
Book Publisher Name is = mr raaz nigam
MRP of the book is = 999
ISBN of the book is = 6767
Book name is = Kaliyug
Book Author Name is = mr raaz nigam
Book Publisher Name is = anshu
MRP of the book is = 1000
```

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#### Question: 3

Create a class diagram and write C# code to store the following details of the student, roll number, name, marks in 4 subjects, total marks and result. Create methods to accept roll number, name and marks, calculate total marks, result and print the data. Create student demo class and create 3 objects of student class and display the output in the following format

Roll_Num	Name	M1	M2	М3	M4	Total	Result
101	Sumit	85	90	65	80	320	Pass
102	mudit	70	80	65	80	255	pass
103	abhay	60	65	70	90	365	Pass

Here we take

Class - As name is Student

Variable	DataType
Roll_Num	int
Name	string
M1	int
M2	int
M3	int
M4	int
Total_Marks	int
Result	string

## Method:

(1) GetDAta(): void type

(2) CalculateResult(): Void type(3) DisplayData(): Void type

# Input

```
D:\asp.net\asp.net core\ConsoleApp6\bin\Debug\C
 -----Get Data-----
Enter the Roll Number of the Student=
Enter the Name Of the Student=
Sumit
Enter the M-1 Marks of the Student=
85
Enter the M-2 Marks of the Student=
Enter the M-3 Marks of the Student=
Enter the M-4 Marks of the Student=
80
Enter the Roll Number of the Student=
Enter the Name Of the Student=
mudit
Enter the M-1 Marks of the Student=
Enter the M-2 Marks of the Student=
Enter the M-3 Marks of the Student=
Enter the M-4 Marks of the Student=
80
Enter the Roll Number of the Student=
Enter the Name Of the Student=
abhay
Enter the M-1 Marks of the Student=
Enter the M-2 Marks of the Student=
65
Enter the M-3 Marks of the Student=
Enter the M-4 Marks of the Student=
90
```

## **Output:**

#### D:\asp.net\asp.net core\ConsoleApp6\bin\Debug\ConsoleApp6.exe

```
Enter the Roll Number of the Student=
101
Enter the Name Of the Student=
Enter the M-1 Marks of the Student=
Enter the M-2 Marks of the Student=
Enter the M-3 Marks of the Student=
Enter the M-4 Marks of the Student=
Enter the Roll Number of the Student=
Enter the Name Of the Student=
nudit
Enter the M-1 Marks of the Student=
Enter the M-2 Marks of the Student=
Enter the M-3 Marks of the Student=
Enter the M-4 Marks of the Student=
80
Enter the Roll Number of the Student=
103
Enter the Name Of the Student=
abhay
Enter the M-1 Marks of the Student=
Enter the M-2 Marks of the Student=
Enter the M-3 Marks of the Student=
...
Enter the M-4 Marks of the Student=
Roll_Number
                                                                          Total_Marks
----
101
                                                 90
                                                                          320
                                                                                           Pass
                Sumit
                                                                  80
101
                                                 80
                                                                  80
                mudit
                                                                                           Pass
103
                abhay
                                                                  90
```