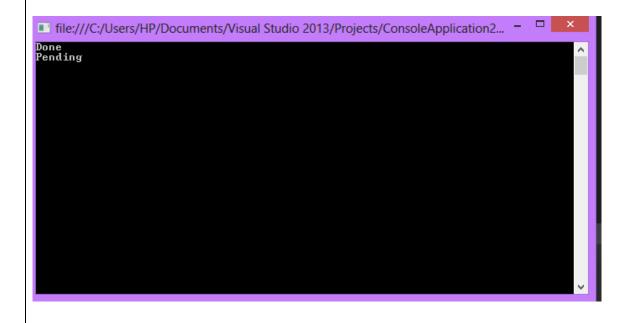
DEMO PROGRAMS (Phase-I)

Demo

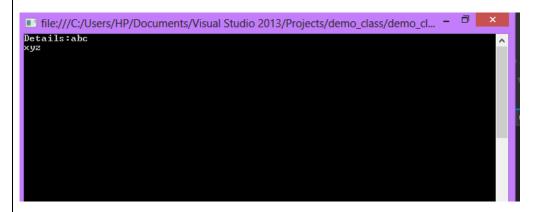
1. Namespace:

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using A = projA.teamA;
class Program
    {
       public static void Main(string[] args)
          A::work.print();
          projA.teamB.work.print();
          Console.ReadLine();
           }
     }
namespace projA
{
  namespace teamA
    class work
       public static void print()
       Console.WriteLine("Done");
```



```
2. <u>Class:</u>
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
class student
  String name, college;
  public student(String n, String c)
     this.name = n;
     this.college = c;
  public void details()
    Console.WriteLine("Details: \{0\}", name + "\n" + college);\\
     Console.ReadLine();
}
namespace demo_class
  class Program
     static void Main(string[] args)
       student s1 = new student("abc", "xyz");
       s1.details();
```



3. Variable & Methods:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace var_method_demo
  class Program
  { // variable declaration
    string name, college;
    int age, sem;
    public void details()
       Console.Write("Enter your name:");
       name = Console.ReadLine();
       Console.Write("Enter your college name:");
       college = Console.ReadLine();
       Console.Write("Enter your Age:");
       age = Convert.ToInt32(Console.ReadLine());
       Console.Write("Enter your current semester:");
       sem = Convert.ToInt32(Console.ReadLine());
    public void display()
       Console.WriteLine("\nYour details:");
       Console.WriteLine("Name:" + name);
       Console.WriteLine("State:" + college);
       Console.WriteLine("Age:" + age);
       Console.WriteLine("Semester:" + sem);
    //call by ref
    public void number(ref int a)
       Console.WriteLine("Contact number:" + a);
       Console.ReadLine();
    // call by value
    public void marks(int s1, int s2)
```

```
Console.WriteLine("Entered marks:");
  Console.WriteLine("C#:" + s1 + "\nJava:" + s2);
  Console.ReadLine();
}
//return values in method
public int sum(int x, int y)
  return x + y;
static void Main(string[] args)
  Program p = new Program();
  // method calling
  p.details();
  p.display();
  //---code for call by reference----
  char n;
  Console.WriteLine("Enter your contact number:");
  int b = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Your contact number is:" + b);
  Console.WriteLine("Do you want to make any changes?(Y/N)");
  n = Console.ReadKey().KeyChar;
  if (n == 'Y')
    Console.WriteLine("\nEnter new contact number:");
    int v = Convert.ToInt32(Console.ReadLine());
    p.number(ref v); //calling by reference
  else
    Console.WriteLine("Please fill other details");
  //---code for call by value----
  Console.WriteLine("Enter your marks for following subjects:");
  Console.Write("C#:");
  int sub1 = Convert.ToInt32(Console.ReadLine());
  Console.Write("Java");
  int sub2 = Convert.ToInt32(Console.ReadLine());
```

```
p.marks(sub1, sub2); //calling by value
    Console.WriteLine( p.sum(sub1, sub2));//Return value method
    Console.ReadLine();
    }
}
```

```
Enter your Age:21
Enter your Age:21
Enter your Age:21
Enter your Gurrent semester:?

Your details:
Name:Sanchana
State:atniya
Age:21
Enter your contact number:
123456789
Your contact number is:123456789
Do you want to make any changes?(Y/N)
Y
Enter new contact number:
1234567898
Contact number:1234567890
Enter your marks for following subjects:
CH:90
Java90
Entered marks:
CH:90
Java:90
Java:90
180
```

4. <u>Datatype conversion:</u>

```
in file:///c:/users/hp/documents/visual studio 2013/Projects/datatype_conv/dataty... - 

Enter a double value:
1253.663
Integer value is:1253
```

5. Boxing & Unboxing:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace boxing_unboxing
  class Program
    static void Main(string[] args)
       Console.WriteLine("Enter a number");
       int num = Convert.ToInt32(Console.ReadLine());
       object obj = num; //boxing
       num = 10;
       int i = (int)obj; //unboxing
       System.Console.WriteLine
       ("Value - type value of num is : {0}", num);
       System.Console.WriteLine
       ("Object - type value of obj is : {0}", obj);
       Console.ReadLine();
  }
```

```
If file:///C:/Users/HP/Documents/Visual Studio 2013/Projects/ConsoleApplication3... - 

Enter a number
7
Value - type value of num is: 10
Object - type value of obj is: 7
-
```

6. If/else,switch:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace if_else_switch
  class Program
    public void eligibilty()
       Console.WriteLine("Enter your age:");
       int age = Convert.ToInt32(Console.ReadLine());
       if(age >= 18){
         Console.WriteLine("You are eligible for vaccination");
       else
         Console.WriteLine("You are not eligible for vaccination");
       Console.ReadLine();
    public void vaccine()
       Console.WriteLine("Enter name of the vaccine:");
       string v = Console.ReadLine();
       if(v == "covishield"){
          Console.WriteLine("Available");
       else if (v == "covaxin")
         Console.WriteLine("Available");
       else if (v == "sputnik")
         Console.WriteLine("Not Available");
       Console.ReadLine();
    static void Main(string[] args)
       Program p = new Program();
       Console.WriteLine("Enter your choice:");
```

```
Console.WriteLine("Enter 1 to check vaccine eligibilty:");
Console.WriteLine("Enter 2 to check vaccine avalaibility:");
int c = Convert.ToInt32(Console.ReadLine());
switch (c)
{
    case 1: p.eligibilty();
    break;
    case 2: p.vaccine();
    break;
    case 3: default:
    break;
}
}
```

```
Inter your choice:
Enter your choice:
Enter 1 to check vaccine eligibility:
Enter 2 to check vaccine avalability:
Inter your age:
21
You are eligible for vaccination
```