## program 1 :

using System;

using System.Reflection;

namespace Reflection

{

class Employee

{

public int EmpId { get; set; }

public string EmpName { get; set; }

public double EmpSalary { get; set; }

public Employee(int EmpId, string EmpName ,double EmpSalary)

{

this.EmpId=EmpId;

this.EmpName=EmpName;

this.EmpSalary=EmpSalary;

}

public void empDetails()

{

Console.WriteLine("Employee Id :"+EmpId);

Console.WriteLine("Employee name :"+EmpName);

Console.WriteLine("Employee Salary :"+ EmpSalary);

}

}

class Program

{

static void Main(string[] args)

{

Employee emp = new Employee(5, "Rashmi", 456000);

Assembly executing = Assembly.GetExecutingAssembly();

Type[] types = executing.GetTypes();

emp.empDetails();

foreach (var item in types)

{

Console.WriteLine(item.Name);

MethodInfo[] mi = item.GetMethods();

foreach (var method in mi)

{

Console.WriteLine(method.Name);

}

}

Console.ReadLine();

}

}

}

## Program 2

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Reflection;

namespace reflectionApp

{

[AttributeUsage(AttributeTargets.Class |

AttributeTargets.Field |

AttributeTargets.Method |

AttributeTargets.Constructor |

AttributeTargets.Property, AllowMultiple = true)]

class SoftwareAtttribute : System.Attribute

{

private string ProjectName;

private string Description;

private string ClientName;

private string StartedDate;

private string EndDate;

public string projectName

{

get{ return ProjectName; }

set{ ProjectName= value; }

}

public string description

{

get { return Description; }

set { Description= value; }

}

public string clientName

{

get { return ClientName; }

set { ClientName= value; }

}

public string startedDate

{

get { return StartedDate; }

set { StartedDate= value; }

}

public string endDate

{

get { return EndDate; }

set { EndDate= value; }

}

public class HDFCAccount : SoftwareAtttribute

{

public void displayAccount(string projectName, string description, string clientname)

{

this.Description = description;

this.ProjectName = projectName;

this.ClientName = clientname;

Console.WriteLine("Project Description : " + Description);

Console.WriteLine("Projectname : " + ProjectName);

Console.WriteLine("Project Client Name : " + ClientName);

}

}

public class ICICIAccount : SoftwareAtttribute

{

public void displayAccount(string description, string projectName, string clientname,string startdate,string enddate)

{

this.Description = description;

this.ProjectName = projectName;

this.ClientName = clientname;

this.startedDate = startdate;

this.EndDate = enddate;

Console.WriteLine("\nProject Description : "+Description);

Console.WriteLine("Projectname : "+ProjectName);

Console.WriteLine("Project Client Name : "+ClientName);

Console.WriteLine("Project Started Date : "+startedDate);

Console.WriteLine("Project End Date : \n"+EndDate);

}

}

class Test

{

static void Main(string[] args)

{

HDFCAccount ha=new HDFCAccount();

ha.displayAccount("reflection assignment", "reflection", "capgemini");

ICICIAccount ia = new ICICIAccount();

ia.displayAccount("reflection assignment", "reflection", "capgemini","17-04-2022","18-04-2022");

Assembly executing = Assembly.GetExecutingAssembly();

Type[] types = executing.GetTypes();

foreach (Type t in types)

{

MethodInfo[] mi = t.GetMethods();

foreach (var m in mi)

{

Console.WriteLine(m);

}

}

Console.ReadKey();

}

}

}

}