

Lab-7(Concept of delegate, Inline function, event and exception handling)

1. Write a c# program to illustrate the single cast and multicast delegate

Single cast:

```
C:\Windows\system32\cmd.exe
```

```
Square of 4 is: 16
Press any key to continue . . .
```

Multicast:

```
C:\Windows\system32\cmd.exe
```

```
Square = 25
Cube = 125
Press any key to continue . .
```

2. Write a C# program to implement the concept of anonymous method and lambda expression.

Anonymous:

```
C:\Windows\system32\cmd.exe
```

```
Sum of two numbers= 11
Press any key to continue . . .
```

Lambda:

```
C:\Windows\system32\cmd.exe
```

```
Sum of two numbers= 11
Area of Circle=78.5
Press any key to continue . . .
```

3. Write a C# program to implement the concept of event handling delegate.

```
C:\Windows\system32\cmd.exe
```

```
The price of stock Nabil is changed from 475 to 500
Press any key to continue . . .
```

4. Write a C# program to implement following Exception

a. DivideByZero Exception

```
C:\Windows\system32\cmd.exe
```

```
Enter any two numbers:
20
0
Attempted to divide by zero.
Press any key to continue . . .
```

```
C:\Windows\system32\cmd.exe
```

```
Enter any two numbers:
20
4
Divison :5
Press any key to continue .
```

b. IndexOutOfRangeException

```
C:\Windows\system32\cmd.exe
```

```
Index was outside the bounds of the array.
Press any key to continue . . .
```

c. InvalidCastException

```
C:\Windows\system32\cmd.exe
```

```
Unboxing the object
Press any key to continue . . .
```

5. Write a c# program that will read balance and withdraw amount from keyboard and display the remaining balance on screen if the balance is greater than withdraw amount otherwise throw an exception with appropriate message.

```
Microsoft Visual Studio Debug Console
```

```
Enter withdrawal amount: 5000
Remaining balance: 15000
your amount.
```

6. Write a C# program that will read name from key board and display it on screen. The program should throw an exception when length of name is more than 10 characters.

```
Microsoft Visual Studio Debug Console
```

```
Enter your collage name:
RatnaRajya laxmi campus
name of length is more then 10:
end of name
```