Practical No.:05

Program No.:01

```
Aim:-Write a Java Program using Lambda Expression to print "Hello World". Code:
```

```
interface Hello
{
      void sayHello();
}
public class HelloWorld {
      public static void main(String[] args)
      {
            Hello hello=()->System.out.println("Hello World");
            hello.sayHello();
      }
}
```

Output:-

<terminated> HelloWorld [Java Ap

Hello World

Program No.:02

Aim:-Write a Java Program using Lambda Expression to concatenate two strings.

Code:

Output:-

<terminated> StringConctena

hello world

Program No.:03

Aim:-Write a Java Program using Lambda Expression with Single Parameter.

```
Code:
interface SingleParameter
{
      void display(String message);
}
public class SingleParameterExample
{
      public static void main (String[] args)
      {
            SingleParameter displayMessage=message->System.out.println("Message: "+message);
            displayMessage.display("Lambda with single parameter");
      }
}
```

Output:-

```
Message: Lambda with single parameter
```

Program No.:04

Aim:-Write a Java Program using Lambda Expression with Multiple Parameter to add two numbers.

```
Code:
```

```
interface Add
{
      int sum(int a, int b);
}
public class AddTwoNumbers {
      public static void main(String[] args)
      {
            Add addition=(a,b)->a+b;
            System.out.println("Sum: "+addition.sum(5, 10));
      }
}
```

Output:

<terminated> AddTwoNumbers [Java Applic

Sum: 15

Program No.:05

Aim:-Write a Java Program using Lambda Expression to calculate following:-

- a. Convert Fahrenheit to Celcius.
- b. Convert Kilometers to Miles.

```
a.Convert Fahrenheit to Celcius:
Code:
interface FahrenheitToCelcuis
       double convert(double fahrenheit);
public class TemperatureConversion
       public static void main (String[] args)
              FahrenheitToCelcuis convert=f->(5.0/9)*(f-32);
              System.out.println("Celcuis: "+convert.convert(98.6));
       }
}
Output:-
<terminated> TemperatureConver
Celcuis: 37.0
b.Convert Kilometers to Miles:
Code:
interface KilometersToMiles{
       double convert(double km);
public class DistanceConversion
       public static void main(String[] args)
              KilometersToMiles convert=km -> km*0.621371;
              System.out.println("Miles: "+convert.convert(10));
       }
Output:
<terminated> DistanceCo
Miles: 6.21371
Program No.:06
```

Aim:-Write a Java Program using Lambda Expression with and without return keyword. 6.1:-With return keyword

Code:

```
interface Multiply{
        int product(int a, int b);
}
public class WithReturn {
        public static void main(String[] args)
        {
            Multiply multiply=(a,b)->
            {
                 return a*b;
            };
            System.out.println("Product: "+multiply.product(5, 4));
        }
}
```

Output:

<terminated> withk

Product: 20

6.1:-Without return keyword Code:

```
interface Subtract
{
     int difference(int a,int b);
}
public class WithoutRetrun
{
     public static void main(String[] args)
     {
          Subtract subtract=(a,b)->a-b;
          System.out.println("Difference: "+subtract.difference(10, 4));
     }
}
```

Output:

```
<terminated> WithoutRet
Difference: 6
```