Assignment No 5

- 1. Write a Java program using Lambda Expression to print "Hello World".
- 2. Write a Java program using Lambda Expression with single parameters.
- 3. Write a Java program using Lambda Expression with multiple parameters to add two numbers.
- 4. Write a Java program using Lambda Expression to calculate the following:
 - a. Convert Fahrenheit to Celsius
 - b. Convert Kilometers to Miles.
- 5. Write a Java program using Lambda Expression with or without return keyword.
- 6. Write a Java program using Lambda Expression to concatenate two strings

Solutions:

1. Write a Java program using Lambda Expression to print "Hello World".

Code:

```
package Lamdaexp;
interface Greetings{
public void sayHellWorld();
}
public class sayHelloworld {
public static void main(String[] args) {
```

```
System.out.println("Lambda Expressions Demonstration");
Greetings greet=() -> System.out.println("Hello World Aditya");
greet.sayHellWorld();
}
```

Output:

```
Problems @ Javadoc Declaration Console X

<terminated> sayHelloworld [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

Lambda Expressions Demonstration

Hello World Aditya
```

2. Write a Java program using Lambda Expression with single parameters.

Code:

```
package Lamdaexp;
interface Greetings{
public void sayHellWorld(String name);
}

public class single {
public static void main(String[] args) {
System.out.println("Lambda Expressions Demonstration");
Greetings greet=(name) -> System.out.println("Hello " +name);
greet.sayHellWorld("Aditya");
}
```

}

Output:

```
Console X Problems Debug Shell

<terminated> single [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

Lambda Expressions Demonstration

Hello Aditya
```

3. Write a Java program using Lambda Expression with multiple parameters to add two numbers.

Code:

Output:

```
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<terminated > Lambda1 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

Lambda Expressions Demonstration

The sum of 2 numbers are: 7
```

- 4. Write a Java program using Lambda Expression to calculate the following:
 - a. Convert Fahrenheit to Celsius
 - b. Convert Kilometers to Miles.

Code:

Output:

```
package assignment3;
import java.util. *;
interface Temprature{
        public void fahrenheitTocelsius(double fahrenheit);
}
interface Distance{
        public void kilometerstometers(double kilometers);
}
public class Lambda2 {

        public static void main(String[] args) {
            Temprature temp=(fahrenheit) -> System.out.println((fahrenheit-32)*(5.0/9.0));
            temp.fahrenheitTocelsius(97.6);
            Distance dist = (kilometers) ->
System.out.println(kilometers*1000);
            dist.kilometerstometers(6.3);
}
```

5. Write a Java program using Lambda Expression with or without return keyword.

Code:

Output:

```
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<terminated > Lambda1 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

Lambda Expressions Demonstration

The sum of 2 numbers are: 7
```

6. Write a Java program using Lambda Expression to concatenate two strings

Code:

```
package Lamdaexp;
import Lamdaexp.concatination.Buildstring;
public class concatination {
  interface Buildstring{
  public String concatenate(String srt1, String str2);
  }
  public static void main(String[] args) {
    Buildstring bstr=(str1, str2)->str1+str2;
  String Full_name=bstr.concatenate(" Aditya"," Pandey");
  System.out.println("After Concatenation"+ Full_name);
}
```

Output:

© Console X Problems Debug Shell
<terminated> concatination [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (
After Concatenation Aditya Pandey