

ASSIGNMENT 17

1.TASK 1:Inheritance in Scala

Code:

```
package new17

class vehicle {          //parent class
    var speed:Int = 10000
}

package new17

class car extends vehicle { //sub class

    var carname="verna"
    println("CAR:"+carname);
    println("SPEED:"+speed);

}

package new17

object details {

    def main(args:Array[String])
    {

        var a=new car()
    }
}
```

Ouput:

<terminated> details\$ [Scala Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (28-Jan-2019, 11:40:51 PM)

CAR:verna

SPEED:10000

2.TASK 2:Multiple- Inheritance in Scala

CODE:

```
package new17

class vehicle { //Parent class

    var carname="verna"
}

package new17

class car extends vehicle { // sub class

    var speed:Int = 250

}

package new17

class mileage extends car{ //sub class extending to another sub class
    var mileage =15
    println("car:"+carname);
    println("mileage:"+mileage);
    println("max speed:"+speed);
}

package new17

object details {

    def main(args:Array[String])
    {

        var a=new mileage()
    }
}
```

Ouput:

```
<terminated> details$ [Scala Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (29-Jan-2019, 12:09:25 AM)
car:verna
mileage:15
max speed:250
|
```

3.TASK 3:

CODE:

```
package assignments

object sums {
  def add(): Int = {
    println("enter 2 numbers")
    var a=scala.io.StdIn.readInt() //input from user
    var b=scala.io.StdIn.readInt()//input from user
    val c=5 //constant taken
    val sum=a+b+c
    return sum
  }

  def square(): Int={
    var sum=add()
    println("The sum of the numbers is:"+sum) //sum of a+b+5
    var sq=sum*sum
    println("The square of the sum of numbers is:"+sq)// square of sum
    return 1
  }

  def main(args: Array[String]) {
    var k=square()
  }
}
```

Ouput:

```
<terminated> sums$ [Scala Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (29-Jan-2019, 12:40:37 AM)
enter 2 numbers
10
15
The sum of the numbers is:30
The square of the sum of numbers is:900
```

4.TASK 4:

CODE:

```
package assignments

object case1 extends App{

    var x=1
    do
    {
        print("enter your choice from 1 to 4 and 10 to exit:")
        x=scala.io.StdIn.readInt()

        x match{
            case 1=>println("Android App Development-14,999 INR")
            case 2=>println("Data Science-49,999 INR")
            case 3=>println("Big Data Hadoop & Spark Developer-24,999 INR")
            case 4=>println("Blockchain Certification-49,999 INR")
            case _=>println("Wrong input")
        }

    }while(x!=10)//when input is given 10 the loop ends
}
```

Output:

```
<terminated> case1$ [Scala Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (29-Jan-2019, 1:01:16 AM)
enter your choice from 1 to 4 and 10 to exit:1
Android App Development-14,999 INR
enter your choice from 1 to 4 and 10 to exit:2
Data Science-49,999 INR
enter your choice from 1 to 4 and 10 to exit:3
Big Data Hadoop & Spark Developer-24,999 INR
enter your choice from 1 to 4 and 10 to exit:4
Blockchain Certification-49,999 INR
enter your choice from 1 to 4 and 10 to exit:5
Wrong input
enter your choice from 1 to 4 and 10 to exit:10
Wrong input
```

