Week – 3

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Section : ML

Roll Number : 10

1. Demonstrate print functions using Scala.

Solution :

```scala
object printFunctionDemo {
  def main(args: Array[String])
  {
    // Applying console with println
    Console.println("We are graphians!")
    // Displays output with no
    // trailing lines
    print("Studying in CSE")
    print("_branch")
    // Used for a newline
    println()
    // Displays format string
    printf("Age = %d", 24)
  }
}
```

2. Demonstrate readline function using Scala.

Solution :
object readLineDemo

{

 def main(args: Array[String])

 {

  // Applying a loop

  while (true)

  {

   // Reads the line from the Console

   val result = scala.io.StdIn.readLine()

   // Displays the string that is

   // given by the user

   printf("You have entered: %s", result)

   //prints newline

   println()

  }

 }

}

3. Demonstrate any 40 keywords using Scala.

Solution :

class keywordDemo {

 object keywordsDemo

 {

  def main(args: Array[String])

  {

```scala
var condition:Boolean =true;
var a:Int=0;
do
{
 try
 {
  a = scala.io.StdIn.readInt();
 }
 catch
 {
  case e: NumberFormatException=>
   {
    println("invalid input");
    return;
   }
 }
 val fact = findFact(a);
 printf("Factorial = %d",fact);
 println();
 print("do you want to enter another no. (y/n):");
 var c:Char = scala.io.StdIn.readChar();
 if(c=='n')
  condition=false;
}while(condition);
return;
}
```

```scala
  def findFact(a:Int) : Int=

   {

     var f:Int=1;

     for(x <- 1 to a)

       f*=x;

     return f;

   }

  }

}
```

4. Write a function to add two numbers using mutable and immutable
   values

Solution :

```scala
object twoNumberAddition {

 def main(args: Array[String])

  {

   // Calling the function


    println("Sum is: " + functionToAdd(10,15));

   }


  // declaration and definition of function


   def functionToAdd(a:Int, b:Int) : Int =

   {
```

```scala
    var sum:Int = 0

    sum = a + b

    // returning the value of sum

    return sum

  }

}


object twoNumberAddition2 {

  def main(args: Array[String])

  {

   // Calling the function

    println("Sum is: " + functionToAdd(23,53));

   }

   // declaration and definition of function

    def functionToAdd(a:Int, b:Int) : Int =

    {

      val sum:Int = a + b

      // returning the value of sum

      return sum

    }}
```