Q1. Write a program in Scala to print a String using Closures.

```scala
object q1closure {
    def main(args: Array[String])
    {

      val age = 20
      val toPrint =(name: String)=>("My name is = "+name+" and age is "+age);
      println(toPrint("jaidev"));
    }
}
```

Problems Tasks Console ✕

\<terminated> q1closure$ [Scala Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (Sep 13, 2021, 12:16:48 AM)
My name is = jaidev and age is 20

Q2. Write a program in Scala to check whether the person is eligible for voting using Closures.

```scala
object q2closurevote {

    def main(args: Array[String]){
      var age = 20
      var votefunc = (result:String)=>{
        if(age>=18)
              "can vote"
        else
              "can not vote"

      }
      println(votefunc(""))
    }
}
```

Problems Tasks Console ✕

\<terminated> q2closurevote$ [Scala Application] C:\Program
can vote

Q3. Write a program in Scala to demonstrate use of single Traits.

q3trait.scala ⊠ q2closurevote.scala

```scala
trait Trait1
{
    def abstractMethod;
    def nonAbstractMethod
    {
        println("As Due to Covid 19" + " there is a nation wide lockdown")
    }
}
// DemoClass inherits trait
class DemoClass extends Trait1
{
    def abstractMethod()
    {
        println("We all are at home")
    }
}
object q3trait
{
    // Main method
    def main(args: Array[String])
    {
        val printVal = new DemoClass();
        printVal.abstractMethod
        printVal.nonAbstractMethod
    }
}
```

Problems Tasks Console ⊠

<terminated> q3trait$ [Scala Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (Sep 13, 2021, 11:10:47 AM)
```
We all are at home
As Due to Covid 19 there is a nation wide lockdown
```

Q4. Write a program in Scala to demonstrate multiple Traits.

*q4traitmultiple.scala

```scala
trait Trait11
{
    def abstractMethod;
}
trait Trait22
{
    def nonAbstractMethod
    {
        println("As Due to Covid 19" + " there is a nation wide lockdown")
    }
}
class DemoClass2 extends Trait11 with Trait22
{
    def abstractMethod()
    {
        println("We all are at home")
    }
}
object q4traitmultiple
{
    def main(args: Array[String])
    {
        val printVal = new DemoClass2();
        printVal.abstractMethod
        printVal.nonAbstractMethod
    }
}
```

Problems Tasks Console ⊠

<terminated> q4traitmultiple$ [Scala Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (Sep 13, 2021,
We all are at home
As Due to Covid 19 there is a nation wide lockdown