Swapnanil Dutta Roll: 12 Assignment 4

Question 2: Code:

```
class Outer {
   String name = "Miss Dawson Homenick";

void show() {
    System.out.println("This is the outer class");
    System.out.println("Name : " + name);
}

public class Inner {
   String occupation = "Executive";

   void display() {
       System.out.println("This is the inner class");
       show();
       System.out.println("Occupation :" + occupation);
    }
}

public static void main(String[] args) {
   new Outer().show();
   new Outer().new Inner().display();
   // new Outer().display(); ! Shows error
}
```

```
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> javac Outer.java
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> java Outer
This is the outer class
Name : Miss Dawson Homenick
This is the inner class
This is the outer class
Name : Miss Dawson Homenick
Occupation :Executive
```

Question 4:

Code:

```
class AnonymousClass {
   void show() {
       System.out.println("Super class method");
   public AnonymousClass get();
           void show() {
               System.out.println("Overridden method");
class Ass4Q4 {
   public static void main(String[] args) {
       new B1().get().show();
```

```
PS D:\00PS-PCC-CS593\Day-16-(04.11.2020)> javac Ass4Q4.java
PS D:\00PS-PCC-CS593\Day-16-(04.11.2020)> java Ass4Q4
Overridden method
```

Question 5:

Code:

```
System.out.println("Block1 Constructor");
       System.out.println("Block1 Initializer Block2");
       System.out.println("Block2 Initializer Block1");
       System.out.println("Block2 Initializer Block2");
public class BlockTest1 {
   public static void main(String[] args) {
       new Block2();
```

```
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> javac BlockTest1.java
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> java BlockTest1
Block1 Initializer Block1
Block1 Initializer Block2
Block1 Constructor
Block2 Initializer Block1
Block2 Initializer Block2
Block2 Constructor
```

Question 6:

Code:

```
System.out.println("Super constructor");
    System.out.println("Super Initializer block");
    System.out.println("Super static block");
B() {
    System.out.println("Sub constructor");
    System.out.println("Sub Initializer block");
    System.out.println("Sub static block");
public static void main(String[] args) {
   new B();
```

```
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> javac BlockTest2.java
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> java BlockTest2
Super static block
Sub static block
Super Initializer block
Super constructor
Sub Initializer block
Sub constructor
```

Question 7:

Code:

```
public class BlockTest3 {
   public static void main(String[] args) {
       new Block2();
   static int a;
   int b;
       System.out.println("Constructor Block");
```

```
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> javac BlockTest3.java
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> java BlockTest3
a=40
a=30 b=50
Constructor Block
```

Question 8: Code:

```
class A1 {
       System.out.println("Super constructor");
       System.out.println("Super Initializer block");
       System.out.println("Super static block");
       System.out.println("Sub Initializer block");
        System.out.println("Sub static block");
public class BlockTest4 {
   public static void main(String[] args) {
       new B1();
```

```
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> javac BlockTest4.java
PS D:\OOPS-PCC-CS593\Day-16-(04.11.2020)> java BlockTest4
Super static block
Sub static block
Super Initializer block
Super constructor
Sub Initializer block
Sub constructor
```