Practical 3.(c)

Aim: Write a C++ program to design a class having static member function named showcount() which has the property of displaying the number of objects created of the class.

Algorithm:(i)Start

(ii)class{..};

(iii)Main function

(iv)Print the result

(v)Stop

Theory: In this practical,we will see a C++ program to design a class having static member function named showcount() which has the property of displaying the number of objects created of theclass.

Program:

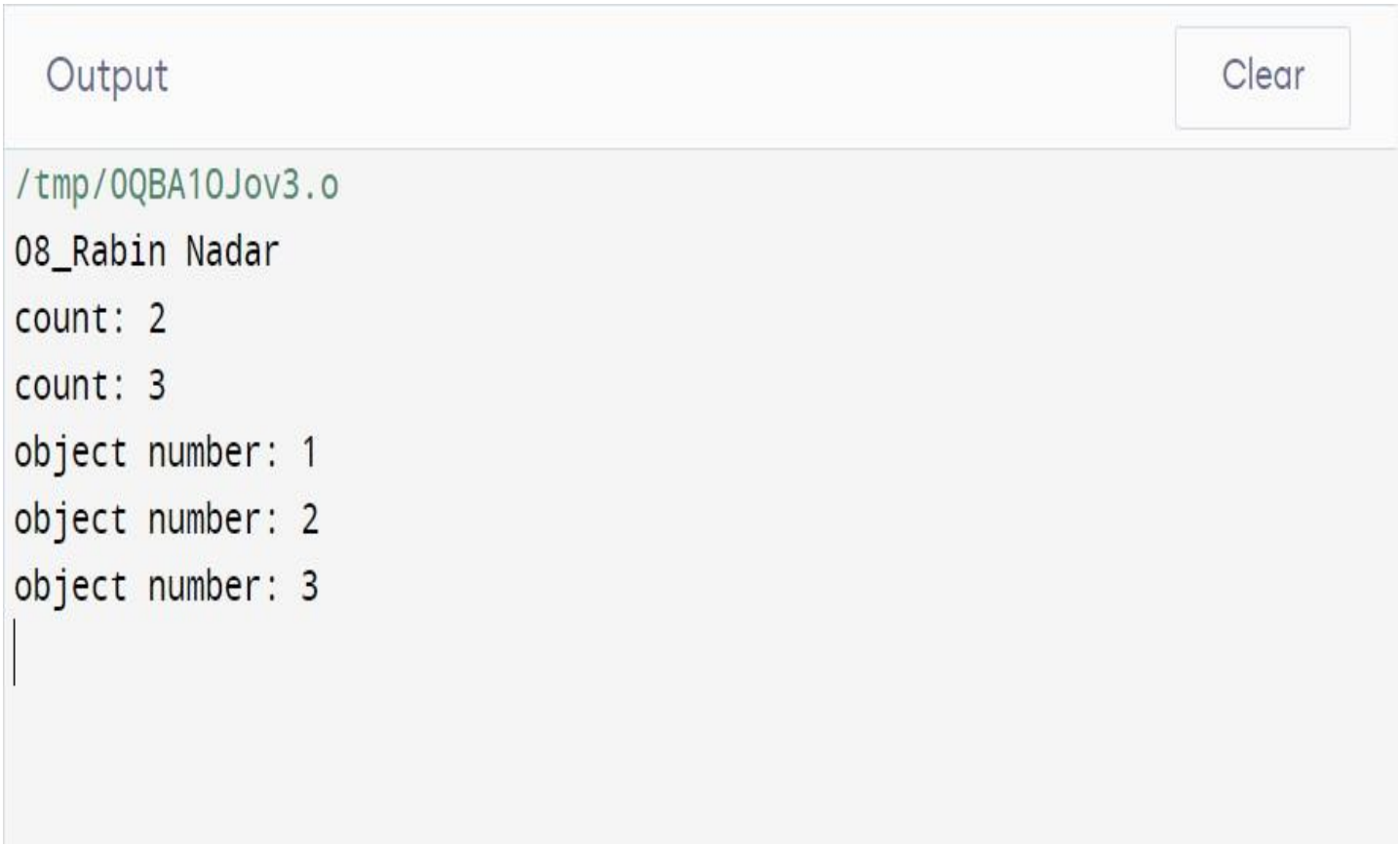
```
#include <iostream>
class test
{
   int objNo;
   static int objCnt;
   public:
```

```
   test()
{
   objNo = ++objCnt;
}
~test()
{
   --objCnt;
}
```

```
void printObjNumber(void)
{
   std::cout<<"object number: "<<objNo<<"\n";
}
static void printObjCount(void)
{
   std::cout<<"count: "<<objCnt<<"\n";
}
};
int test::objCnt;
int main()
{
   std::cout<<"08_Rabin Nadar"<<std::endl;
   test t1,t2;
   test::printObjCount();
   test t3;
   test::printObjCount();
   t1.printObjNumber();
   t2.printObjNumber();
```

```
    t3.printObjNumber();
    return 0;
}
```

Output:



Conclusion:

We have successfully written the code and executed it.