ASSIGNMENT

Name: RAMAVATH SANTHOSH

Roll No: 22MCF1R40

2ND SEMESTER, 1ST YEAR MCA

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Topic: Practiced Questions from Nageshwar Rao Book

Q1)

```
class test{
  public static void main(String []args){

    System.out.println("My First code");
  }
}
```

Q2)

```
//Question2:
//Program 2
//sum of two number
import java.io.*;
import java.util.*;
import java.lang.*;
class Sum{
      public static void main(String args[])
       {
        int x,y;
        x = 10;
        y = 25;
        int z= x+y;
          System.out.print(z);
          //System.out.println(args[0]);
          //System.out.println(args[1]);
          //System.out.println(args[2]);
          //System.out.println(args[3]);

        }
}
```

Q3)

```
//Question3:
//Program 3
```

```java
//print() and println()
// import java.lang.*;
class Format{
      public static void main(String args[])
       {
        int a=1,b=2,c=3,d=4;
        System.out.print(a+"\t"+b);
        System.out.println(b+"\n"+b);
        System.out.print(":"+c);
        System.out.println();
        System.out.println("Hello\\Hi\""+d);
        }
}
```

Q4)

```java
//Question4:

//pre and post increment
// import java.lang.*;
class PrePost{
      public static void main(String args[])
       {
        int x=1;
        System.out.println(x);
        System.out.println(++x);
        System.out.println(x);

        int y=1;
        System.out.println(y);
        System.out.println(y++);
        System.out.println(y);

        }
}
```

Q5)

```java
//Question5:
//a=++b
//what are the values of a and b
// import java.lang.*;
class Format{
      public static void main(String args[])
       {
        int a=1, b=2;
        a=++b;
```

```
        System.out.println(a);
        System.out.println(b);
        }
}
```

Q6)

```
//Question6:
//a=++b
//what are the values of a and b
// import java.lang.*;
class Format{
      public static void main(String args[])
       {
        int a=1, b=2;
        a=++b;
        System.out.println(a);
        System.out.println(b);
        }
}
```

Q7)

```
//Question 7:
//BITWISE OPERATORS
// import java.lang.*;
class Bits{
      public static void main(String args[])
       {
        byte x=1, y=2;
        System.out.println("~X= "+ (~x));
        System.out.println("x & y= "+ (x&y));
        System.out.println("x | y= "+ (x|y));
        System.out.println("x ^ y= "+ (x^y));
        System.out.println("x << y= "+ (x<<2));
        System.out.println("x >> y= "+ (x>>2));
        System.out.println("x >>> y= "+ (x>>>2));
        }
}
```

Q8)

```
//Question 8:
//Write a program to test is a number is positive or negative
//import java.lang.*;
class Bits{
      public static void main(String args[])
```

```
       {
        int num = -5;
        if(num==0)
            System.out.println(" t is zero");
        else if(num>0)
            System.out.println(num + "is positive");
        else if(num<0)
            System.out.println(num + "is negative");

        }
}
```

Q9)

```
//Question 9

//Write a program to display numbers from 1 to 10
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int num = 1;
        do{
            System.out.println(num);
            num++;
        }while(num<=10);

        }
}
```

Q10)

```
//Question 10
//Write a program to display numbers from 1 to 10 using while loop
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int num = 1;
        while(num<=10){
            System.out.println(num);
            num++;
        }


        }
}
```

Q11)

```
//Question 11
//Write a program to display numbers from 1 to 10 using for loop
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
       for(int x=1;x<=10;x++){
            System.out.println(x);
        }
        }
}
```

Q12)

```
//Question 12
//Write a program to display numbers from 1 to 10 using infinite for loop
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int x=1;
       for( ; ;){
            System.out.println(x);
            x++;
            if(x>10) break;
        }
        }
}
```

Q13)

```
//Question 13
/*Write a program to display stars in a triangular form--
a single star in the first line, two stars in the second line, and so on.
*/
//import java.lang.*;
class star{
      public static void main(String args[])
       {
        int r=5;
       for(int i=1;i<=r;i++){
         for(int st=1;st<=i;st++){
            System.out.print("*");
         }
             System.out.println();
        }
```

```
        }
}
```

Q14)

```
//Question 14
/*Write a program to see the use of for-each loop and
reterive the elements one by one from an array and display it
*/
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
         int arr[] = {200,-2,44,99};
         for(int i : arr){
            System.out.println(i);
        }
        }
}
```

Q15)

```

//Question 15
/*Write a program for using switch statement to execute a particular task
depending on color value
*/
//import java.lang.*;

class Demo {
  public static void main(String args[]) {
    char color = 'g';
    switch (color) {
      case 'r':
        System.out.println("Red");
      case 'g':
        System.out.println("Greeen");
      case 'b':
        System.out.println("Blue");
      case 'w':
        System.out.println("white");
      default:
        System.out.println("No Color");

    }
  }
```

```
}
```

Q16)

```
//Question 16
/*Write a program to come out of switch block , after executing task
*/
//import java.lang.*;

class Demo {
  public static void main(String args[]) {
    char color = 'g';
    switch (color) {
      case 'r':
        System.out.println("Red");
        break;
      case 'g':
        System.out.println("Greeen");
        break;
      case 'b':
        System.out.println("Blue");
        break;
      case 'w':
        System.out.println("white");
        break;
      default:
        System.out.println("No Color");

    }
  }
}
```

Q17)

```
//Question 17
/*Write a program to use break statement to go to the end of a block
*/
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
         boolean x = true;

         bl1:{
            bl2:{
```

```
                bl3:{
                    System.out.println("Block3");
                    if(x) break bl2;
                }
                System.out.println("Block2");
            }
            System.out.println("Block3");
         }
         System.out.println("Out of all Blocks");
        }
}
```

Q18)

```
//Question 18
/*Write a program using for loop to display the numbers in descending order
*/
import java.lang.*;
class Demo{
      public static void main(String args[])
       {
       for(int i=10; i>=1; i--){
        System.out.print(i+" ");
       }
        }
}
```

Q19)

```
//Question 19
/*Write a program for using nested loops( to display i and j values)
*/
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int i=1,j;
       lp1: while(i<=3)
       {
        System.out.print(i);
        lp2: for(j=1;j<=5; j++){
            System.out.println("\t"+j);
        }
        i++;
        System.out.println("-------------");
       }
     }
}
```

Q20)

```
//Question 20
/*Write a program to return a value from a method
*/
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int res= Demo.myMethod(10);
        System.out.println("Result= "+ res);
     }
     static int myMethod(int num)
     {
        return num*num;
     }
}
```

Q21)

```
//Question 21
/*Write a program to return statement in main()
*/
//import java.lang.*;
class Demo{
      public static void main(String args[])
       {
        int x=1;
        System.out.println("Before return");
        if(x==1) return;
        System.out.println("After return");
       }
}
```

Q22)

```
//Question 22
/*To accept and display a character from the keyboard
*/
import java.io.BufferedReader;
//import java.io.FileReader;
import java.io.IOException;
import java.io.*;class Accept{
      public static void main(String args[])throws IOException
       {
```

```
        BufferedReader br= new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter a character: ");
        char ch= (char)br.read();
        System.out.println("You entered: "+ ch);
       }
}
```

Q23)

```
//Question 23
/*Accepting a string from the keyboard
*/
import java.io.BufferedReader;
//import java.io.FileReader;
import java.io.IOException;
import java.io.*;
class Accept{
      public static void main(String args[])throws IOException
       {
        BufferedReader br= new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter a name: ");
        String name= br.readLine();
        System.out.println("You entered: "+ name);
       }
}
```

Q24)

```
//Question 24
/*Accepting an integer from the keyboard
*/
import java.io.BufferedReader;
//import java.io.FileReader;
import java.io.IOException;
import java.io.*;
class Accept{
      public static void main(String args[])throws IOException
       {
        BufferedReader br= new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter an int value: ");
        int num= Integer.parseInt(br.readLine());
        System.out.println("You entered: "+ num);
       }
}
```

Q25)

```
//Question 25
/*Accepting a float number from the keyboard
*/
import java.io.BufferedReader;
//import java.io.FileReader;
import java.io.IOException;
import java.io.*;
class Accept{
      public static void main(String args[])throws IOException
       {
        BufferedReader br= new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter an int value: ");
        float num= Float.parseFloat(br.readLine());
        System.out.println("You entered: "+ num);
       }
}
```

Q26)

```
//Question 26
/*Accepting a float number from the keyboard
*/
import java.io.BufferedReader;
//import java.io.FileReader;
import java.io.IOException;
import java.io.*;
class accept{
      public static void main(String args[])
      throws IOException
       {
        BufferedReader br= new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter an int value: ");
        double num= Double.parseDouble(br.readLine());
        System.out.println("You entered: "+ num);

        byte n = Byte.parseByte(br.readLine());
        System.out.println("You entered: "+ n);

        long numb= Long.parseLong(br.readLine());
        System.out.println("You entered: "+ numb);

        boolean number= Boolean.parseBoolean(br.readLine());
        System.out.println("You entered: "+ number);
       }
```

```
}
```

Q27)

```
class block{
      public static void main(String args[])
       {
         boolean x = true;

         bl1:{
            bl2:{
                bl3:{
                    System.out.println("Block3");
                    if(x) break bl2;
                }
                System.out.println("Block2");
            }
            System.out.println("Block3");
         }
         System.out.println("Out of all Blocks");
        }
}
```

Q28)

```
public class BufferClass {
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("Hello ");

        // append method
        sb.append("World!");
        System.out.println(sb);  // Output: Hello World!

        // insert method
        sb.insert(6, "insert ");
        System.out.println(sb);  // Output: Hello Java World!

        // delete method
        sb.delete(6, 11);
        System.out.println(sb);  // Output: Hello World!

        // replace method
        sb.replace(5, 6, ", ");
        System.out.println(sb);  // Output: Hello, World!

        // reverse method
        sb.reverse();
        System.out.println(sb);  // Output: !dlroW ,olleH
```

```
    }
}
```