

Assessment-4

Topic: String Handling, Wrapper Classes,
Exception Handling (Fiserv)

Trainer: Sagar

Points: -/22

1. Name and Email (Batch-1)

NA

2. Name and Email (Batch-2) *

✍ **Will be reviewed**

3. Pick the correct answer

```
public class Test2 {  
  
    public static void main(String args[]){  
  
        String s1 = "java";  
  
        String s2 = "java";  
  
  
        String s3 = new String("java");  
  
        String s4 = new String("java");  
  
  
        System.out.println(s1==s2);  
  
        System.out.println(s1.equals(s2));  
  
        System.out.println(s3==s4);  
  
        System.out.println(s3.equals(s4));  
    }  
}
```

}

}

- ☐ A) true true false false
- ☐ B) true false false true
- ☒ C) true true false true
- ☐ D) false true false true

 **Will be reviewed**

4. **toString() method is defined in**

- ☐ A) java.lang.String
- ☐ B) java.lang.Object
- ☒ C) Both A&B
- ☐ D) None of these

 **Will be reviewed**

5. **What is the Output of the below program?**

```
public class Test3 {  
  
    public static void main(String[] args) {  
  
        String str="abcde";  
  
        System.out.println(str.substring(1,3));  
  
    }  
}
```

- ☐ A) bc
- ☒ B) bcd
- ☐ C) abc
- ☐ D) Compilation Error

📝 **Will be reviewed**

6. **What is the Output of the below program?**

```
public class Test4 {  
  
    public static void main(String[] args) {  
  
        String s1="s1="+ "123" + "456";
```

```
String s2="s2="+ (123+456);

System.out.println(s1+"\t"+s2);

}

}
```

- ☐ A) s1=123456 s2=123456
- ☒ B) s1=123456 s2=579
- ☐ C) s1=579 s2=123456
- ☐ D) s1=579 s2=579

 **Will be reviewed**

7. **String in Java is a ____?**

- ☐ A) Object
- ☐ B) ObjectReference
- ☒ C) Class
- ☐ D) DataType

 **Will be reviewed**

8. **Consider the following two statements?**

```
int x=25;
```

```
Integer y = new Integer(25);
```

What is the difference between these two statements

- ☐ A) x is a primitive datatype variable and y is a primitive datatype variable
- ☒ B) x is a primitive datatype variable and y is a reference datatype variable
- ☐ C) x is a reference datatype Variable and y is a primitive datatype variable
- ☐ D) x is a reference datatype variable and y is a reference datatype variable

 **Will be reviewed**

9. **What is the Output of below program**

```
public class Test5 {  
  
    public static void main(String[] args) {  
  
        String s1="100";  
  
        int x=Integer.parseInt(s1);
```

```
System.out.println(x);
```

```
String s2="10A";
```

```
int y=Integer.parseInt(s2);
```

```
System.out.println(y);
```

```
}
```

```
}
```

- ☒ A) 100 NumberFormatException
- ☐ B) Only NumberFormat Exception
- ☐ C) Compile Error
- ☐ D) 1065

 **Will be reviewed**

10. **Which of these keywords is not a part of exception Handling?**

- ☐ A) try
- ☒ B) finally

☐ C) thrown

☐ D) catch

 **Will be reviewed**

11. **What is the Output of the below program?**

```
class exception_handling  
{  
    public static void main(String args[])  
    {  
        try  
        {  
            System.out.print("Hello" + " " + 1 / 0);  
        }  
        catch(ArithmeticException e)  
        {  
            System.out.print("World");  
        }  
    }  
}
```



```
}
```

```
}
```

- ☐ A) Hello
- ☒ B) World
- ☐ C) HelloWorld
- ☐ D) Hello World

📝 **Will be reviewed**

12. **What is the Output of the below program?**

```
class Test7  
{  
    public static void main(String args[])  
    {  
        Int sum=0;  
        try  
        {
```

```
int i;  
  
sum = 10;  
  
for (i = -1; i < 3 ;++i)  
  
    sum = (sum / i);  
  
}  
  
catch(ArithmeticException e)  
  
{  
  
    System.out.print("0");  
  
}  
  
System.out.print(sum);  
  
}  
}
```

- ☒ A) 0-10
- ☐ B) 05
- ☐ C) Runtime Error
- ☐ D) Compile Error

 **Will be reviewed**

13. **Which of the keyword is used to handle the Exception**

- ☐ A) thrown
- ☐ B) throwable
- ☐ C) throw
- ☒ D) throws

 **Will be reviewed**

14. **What are the Differences between String, StringBuffer and StringBuilder classes?**

Enter your answer

 **Will be reviewed**

15. **1. What is the difference between throw and throws keyword?**

Throw - to throw an object of exception class
Throws - to throw an exception and handle it

✍️ **Will be reviewed**

16. Explain final and finally Keywords in Java?

Final - you cannot make any change even if the method is overriding or variables
Finally - it will definitely get executed even an exception occurs

✍️ **Will be reviewed**

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✍️ **Will be reviewed**

18. Write a Java Program to Implement the below Logic

Input: String str = "1ax2y34z-yfg45";

Output: Print the Sum of all Numbers from above String i.e., 1+2+34+45 = 82

Hint: This Logic can be Implemented using String class charAt() method, StringBuilder class append() method and Integer class parseInt() method

```
package Assessment4_0821;

public class Question18 {
    public static void main(String[] args) {
        String str = "1ax2y34z-yfg45";
        String temp = "0";
        int sum = 0;
        for (int i = 0; i < str.length(); i++) {
            char ch = str.charAt(i);
            if (Character.isDigit(ch))
                temp += ch;
            else {
                sum += Integer.parseInt(temp);
                temp = "0";
            }
        }
        sum = sum + Integer.parseInt(temp);
        System.out.println(sum);
    }
}
```



✍ Will be reviewed

19. **A) Create a Customized Exception with the Name as “InsufficientBalanceException”.**
“InsufficientBalanceException” should be written as Checked Exception

B) Create a class “BankAccount” and write a instance variable ‘balance’
And Write Instance method as “withdrawMoney” with argument as amount, Implement the Logic If amount is less than balance, then withdraw should be **successful and balance should be updated and If amount is greater than balance, throw “InsufficientBalanceException”**

C) Write a Main method in BankAccount class and call the above method by passing two different Inputs (Lesser Amount and Greater Amount)

```
package Assessment4_0821;

public class Question19_BankAccount {
    int balance = 5000;

    public void withdrawMoney(int amount) throws Question19_insufficientBalance {
        //int amount = 2000;
        if(amount < balance){
            System.out.println("Balance is sufficient to withdraw.");
            balance =balance-amount;
            System.out.println("Available Balance is -"+balance);
        }else{
            throw new Question19_insufficientBalance();
            //Question19_insufficientBalance ob2=new Question19_insufficientBalance();

        }
    }

    public static void main(String[] args) throws Question19_insufficientBalance {
        Question19_BankAccount ob = new Question19_BankAccount();
        ob.withdrawMoney(2000);
        ob.withdrawMoney(6000);
        Question19_insufficientBalance ob2=new Question19_insufficientBalance();
        ob2.display();

    }

}

package Assessment4_0821;

public class Question19_insufficientBalance extends Exception{
    public void display(){
        System.out.println("Exception");
    }
}
```

}



 **Will be reviewed**

20. **Write a Java Program to verify given String is Pangram String or not**

Input String: The quick brown fox jumps over the lazy dog

Pangram means: String should contain every letter in English Alphabet


```
package Assessment4_0821;

public class Question20 {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog";
        String str1 = str.replaceAll(" ", "");
        String str2 = str1.toLowerCase();
        System.out.println(str2);

        String alphabets = "abcdefghijklmnopqrstuvwxyz";

        for(char alph = 'a'; alph <= 'z'; alph++ )
        {
            int i=0;
            int x=str2.length();
            if(alph == str2[i]){
                i++;
            }

        }

    }
}
```

📝 Will be reviewed

21. **Write a Program to check if one String can be Obtained by rotating another String 2 places (both clock-wise and anti-clock wise)**

Input: String1 = "fiserv", String2="servfi"

Output is: Yes

Input: String1="fiserv", String2="rvfise"

Output is Yes

Enter your answer

 **Will be reviewed**

22. What is Autoboxing and Auto Unboxing? Please Explain with some example

Enter your answer

 **Will be reviewed**

23. Explain about String Constant Pool

Enter your answer

 **Will be reviewed**

24. Write a Java program to sort the below array Values

Int a[]={5,2,1,9,6,3};

```
package Assessment4_0821;

public class Question24 {
    public static void main(String[] args) {
        int a[] = {5, 2, 1, 9, 6, 3};
        int x=0;
        for(int i=0; i< a.length;i++){
            for(int j=0; j<a.length;j++){
                if(a[i]<a[j]){
                    x=a[i];
                    a[i]=a[j];
                    a[j]=x;
                    //System.out.println(a[i]);
                }
                //System.out.println(a[j]);

            }

        }
        for(int i=0;i<a.length;i++){
            System.out.println(a[i]);
        }
    }
}
```

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