

Java Assignment –Morning Session –Anubhav Singh

Class Assignment:

Ques 1: Write a java program to print the result of following operations.

a) $-5+8*6$

b) $(55+9)\%9$

c) $20+-3*5/8$

d) $5+15/3*2-8\%3$

Code :

```
sjava - Eclipse IDE
v Help
spring-boot-... ArithmeticOp... Substring.java reverseorde... ThrowExcepti... Serialize.java »
1 package com.au.spring.java;
2 import java.util.*;
3
4 public class ArithmeticOperations {
5     public static void main(String[] args)
6     {
7         Scanner in = new Scanner(System.in);
8
9         Stack<Integer> op = new Stack<Integer>();
10        Stack<Double> val = new Stack<Double>();
11
12        Stack<Integer> optmp = new Stack<Integer>();
13        Stack<Double> valtmp = new Stack<Double>();
14
15        System.out.println("Evaluation Of Arithmetic Expression Using Stacks Test\n");
16        System.out.println("Enter expression\n");
17        String exp = in.next();
18        exp = "0" + exp;
19        exp = exp.replaceAll("-", "+-");
20
21        String temp = "";
22        for (int i = 0; i < exp.length(); i++)
23        {
24            char ch = exp.charAt(i);
25            if (ch == '-')
26                temp = "-" + temp;
27            else if (ch != '+' && ch != '*' && ch != '/')
28                temp = temp + ch;
29            else
30            {
31                val.push(Double.parseDouble(temp));
32                op.push((int)ch);
33                temp = "";
34            }
35        }
36        val.push(Double.parseDouble(temp));
37
38        char operators[] = {'/', '*', '+', '%'};
39
```

Evaluation Of Arithmetic Expression Using Stacks Test

Enter expression

1-2-5+88-34

Result = 48.0

Ques 2: Java program to print the American flag

- Eclipse IDE

ow Help

```
1 package com.au.spring.java;
2
3
4 public class AmericanFlag {
5     public static void main(String[] args) {
6         String s1 = "*****\n *****";
7         String s2 = "===== ";
8         for (int i = 0; i < 4; i++) {
9             System.out.println(s1);
10        }
11        System.out.println("***** =====");
12        for (int i = 0; i < 6; i++) {
13            System.out.println(s2);
14        }
15    }
16 }
17
18
```

Hands On questions

1 : Write a Java program to replace each substring of a given string that matches the given regular expression with the given replacement.

clipse IDE
ow Help

```
1 package com.au.spring.java;  
2 import java.util.*;  
3  
4 public class Substring {  
5     public static void main(String[] args)  
6     {  
7         Scanner in=new Scanner(System.in);  
8         System.out.println("Enter the string");  
9         String str=in.nextLine();  
10        System.out.println("Enter the word to be replaced");  
11        String inp=in.nextLine();  
12        System.out.println("Enter the word with which to replace");  
13        String word=in.nextLine();  
14        String newStr=str.replaceAll(inp,word);  
15        System.out.println("The original string was: "+str);  
16        System.out.println("The replaced string is : "+newStr);  
17  
18  
19  
20
```

Problems Javadoc Declaration Console

<terminated> Substring [Java Application] C:\Users\singh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.2.v20210201-0955\jre\bin\ja
Enter the string
The quick brown fox runs over a lazy dog
Enter the word to be replaced
brown
Enter the word with which to replace
red
The original string was: The quick brown fox runs over a lazy dog
The replaced string is : The quick red fox runs over a lazy dog

Ques 2: Write a Java program to get a reverse order view of the keys contained in a given map

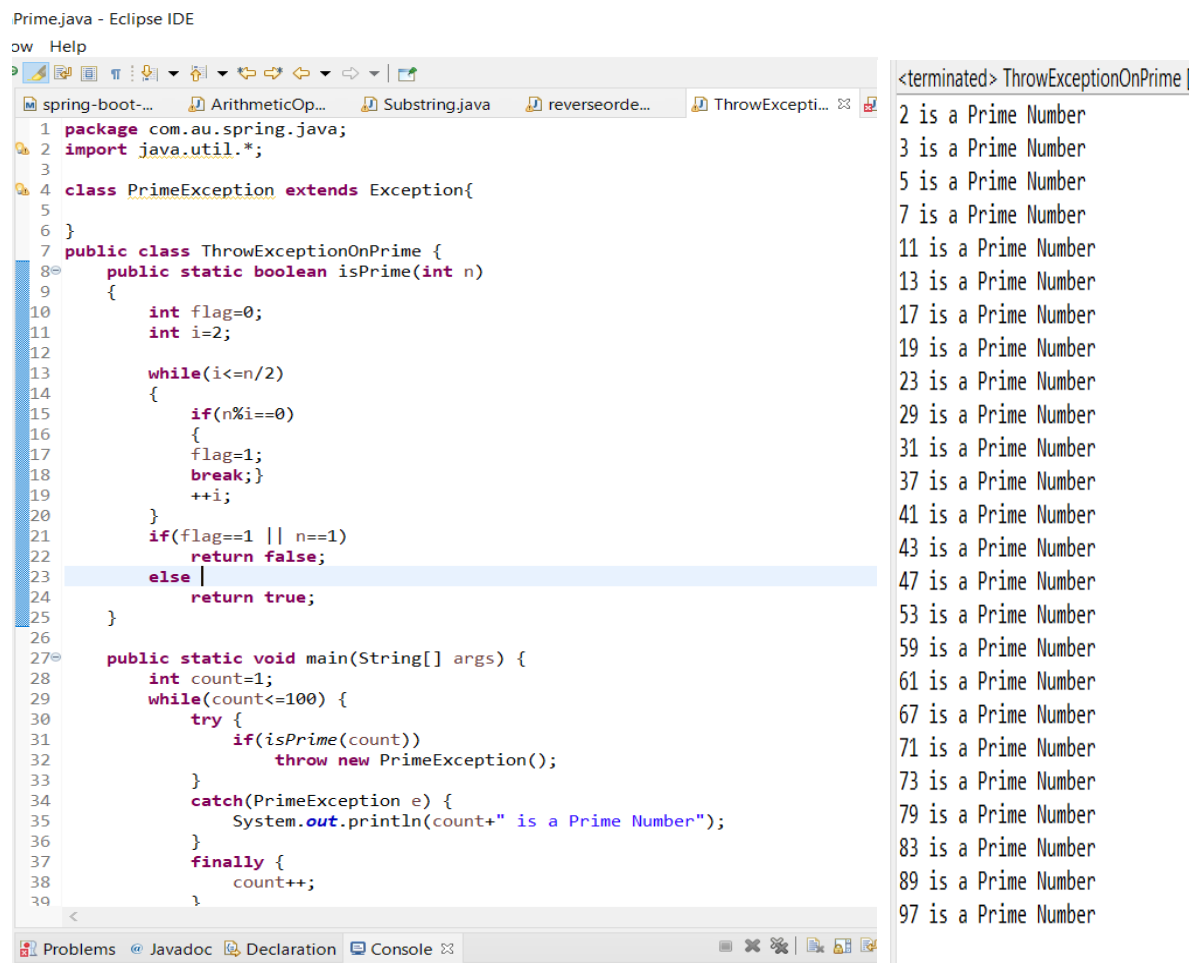
java - Eclipse IDE
dow Help

```
1 package com.au.spring.java;  
2 import java.util.*;  
3  
4 public class reverseorderview {  
5     public static void main(String[] args) {  
6         TreeMap<String,String> treemap= new TreeMap<>();  
7         Scanner in=new Scanner(System.in);  
8  
9         System.out.println("Enter the number of key->value pairs");  
10        int n=in.nextInt();  
11  
12        for(int i=0;i<n;i++)  
13        {  
14            System.out.println("Enter Key");  
15            String key=in.next();  
16  
17            System.out.println("Enter Value");  
18            String value=in.next();  
19            treemap.put(key,value);  
20        }  
21  
22        System.out.println("Original key Map: "+treemap);  
23        System.out.println("Reversed key Map: "+treemap.entrySet().stream().sorted((a,b)-> a.getKey().compareTo(b.getKey())).map(a-> a.getKey()).collect(Collectors.toList()));  
24    }  
25}
```

Problems Javadoc Declaration Console

<terminated> reverseorderview [Java Application] C:\Users\singh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.2.v20210201-0955\jre
Enter the number of key->value pairs
3
Enter Key
Rahul
Enter Value
Javascript
Enter Key
Nishant
Enter Value
Java
Enter Key
GIT
Enter Value
Biresh
Original key Map: {GIT=Biresh, Nishant=Java, Rahul=Javascript}
Reversed key Map: [Rahul, Nishant, GIT]

Ques 3:



```
Prime.java - Eclipse IDE
ow Help
spring-boot-... ArithmeticOp... Substring.java reverseorde... ThrowExcepti...
1 package com.au.spring.java;
2 import java.util.*;
3
4 class PrimeException extends Exception{
5
6 }
7 public class ThrowExceptionOnPrime {
8     public static boolean isPrime(int n)
9     {
10         int flag=0;
11         int i=2;
12
13         while(i<=n/2)
14         {
15             if(n%i==0)
16             {
17                 flag=1;
18                 break;
19             }
20             ++i;
21         }
22         if(flag==1 || n==1)
23             return false;
24         else
25             return true;
26
27     }
28
29     public static void main(String[] args) {
30         int count=1;
31         while(count<=100) {
32             try {
33                 if(isPrime(count))
34                     throw new PrimeException();
35             }
36             catch(PrimeException e) {
37                 System.out.println(count+" is a Prime Number");
38             }
39             finally {
40                 count++;
41             }
42         }
43     }
44 }
```

<terminated> ThrowExceptionOnPrime |

2 is a Prime Number
3 is a Prime Number
5 is a Prime Number
7 is a Prime Number
11 is a Prime Number
13 is a Prime Number
17 is a Prime Number
19 is a Prime Number
23 is a Prime Number
29 is a Prime Number
31 is a Prime Number
37 is a Prime Number
41 is a Prime Number
43 is a Prime Number
47 is a Prime Number
53 is a Prime Number
59 is a Prime Number
61 is a Prime Number
67 is a Prime Number
71 is a Prime Number
73 is a Prime Number
79 is a Prime Number
83 is a Prime Number
89 is a Prime Number
97 is a Prime Number

Ques 4: Write a programme to serialize 3 fields out of 5 and deserialize it. Use UUID to prevent object mutation.

```
eclipse-workspace - spring-boot-couchbase-example/src/main/java/SerializeDeserialize.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
spring-boot-couchbase-example/pom.xml Config.java BlogRepository.java Blogs.java SpringBootCouchbaseExampleApplica

1 import java.io.*;
2 import java.util.*;
3
4 class Data implements Serializable {
5     UUID serialversionUID = new UUID(100,10);
6     int id;
7     int phoneNumber;
8     String email;
9     String name;
10
11
12 public Data(int id, String name,String email, int phoneNumber)
13 {
14     this.id = id;
15     this.name = name;
16     this.phoneNumber = phoneNumber;
17     this.email = email;
18 }
19 }
20 public class SerializeDeserialize {
21     public static void display(Data d){
22         System.out.println("ID Data: " + d.id);
23         System.out.println("Name Data: " + d.name);
24         System.out.println("phoneNumber Data: " + d.phoneNumber);
25         System.out.println("email Data: " + d.email);
26     }
27     public static void main(String []args){
28         Data d1 = new Data(1, "Anubhav Singh","anubhav.singh@accolitedigital.com", 100);
29         try {
30             System.out.println("\nSerializing\n");
31             FileOutputStream file = new FileOutputStream("dataFile.txt");
32             ObjectOutputStream out = new ObjectOutputStream(file);
33             out.writeObject(d1);
34             out.close();
35             file.close();
36             System.out.println("Data before deserialization:\n ");
37             display(d1);
38         }
39         catch (Exception e) {
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