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std : 3rd year (G3)
BATCH : (A)
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JAVA PRACTICAL : 1
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Practical 1:
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1.Write a program to print the Fibonacci series upto 50 using for loop

code:

```
public class Fibonacci {


    public static void main(String[] args) {
        // TODO code application logic here
        int n1=0,n2=1,n3,i,count=11;
        System.out.println(n1+" "+n2);//printing 0 and 1
        for(i=2;i<count;i++)
        {
            n3=n1+n2;
            System.out.println(" "+n3);
            n1=n2;
            n2=n3;
        }

    }

}
```

---

output-

```
Windows PowerShell
Copyright (C) 2009 Microsoft Corporation. All rights reserved.
```

```
PS C:\Users\KIRAN> cd D:\java
PS D:\java> javac Fibonacci.java
PS D:\java> java Fibonacci
Error: Could not find or load main class Fibonacci
PS D:\java> javac Fibonacci.java
PS D:\java> java Fibonacci
0 1
 1
 2
 3
 5
 8
 13
 21
 34
 55
PS D:\java>
```

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2.Write a program to print even series upto 20 using while loop

CODE:

```
public class WhileEven {

    public static void main(String[] args) {
        // TODO code application logic here
        int i = 1;
        System.out.println("Even Numbers : ");
        while(i<=20)
        {
            if(i%2==0){
               System.out.println(i+" ");
            }
           i++;

        }
    }
```

```
}
```
---
output:

```
PS D:\java> javac WhileEven.java
PS D:\java> java WhileEven
Even Numbers :
2
4
6
8
10
12
14
16
18
20
```
==========

3.Write a program to print the sum of hardcoded digit's in number using do while loop.
ex(127=1+2+7=10)

code:

```
public class SumOfDigits {

    public static void main(String[] args) {
        // TODO code application logic here
        int num = 256;
        int rem = 0;
        int sum = 0;
        int x = num;
         System.out.println(num + "=");
        while(x>0){
            rem = x % 10;
            sum = sum + rem;
            x = x / 10;
```

```
            System.out.println(rem + "+");
        }
        System.out.println("=" + sum);
    }

}
```

---

output:

```
PS D:\java> javac SumOfDigits.java
PS D:\java> java SumOfDigits
256=
6+
5+
2+
=13
PS D:\java>
```

==========

4.Write a program to print whether the given number is prime or not using if-else

code:

```
public class Isprime{
 public static void main(String args[]){
  int i,m=0,flag=0;
  int n=3;//it is the number to be checked
  m=n/2;
  if(n==0||n==1){
   System.out.println(n+" is not prime number");
  }else{
   for(i=2;i<=m;i++){
    if(n%i==0){
     System.out.println(n+" is not prime number");
     flag=1;
     break;
    }
```

```
   }
   if(flag==0)  { System.out.println(n+" is prime number"); }
  }//end of else
}
}
```

---

output:

```
PS D:\java> javac Isprime.java
PS D:\java> java Isprime
3 is prime number
PS D:\java>
```

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5.Write a program using break, continue and switch statement.

code:

```
import java.util.Scanner;
public class Switchcase {

    public static void main(String[] args) {
        // TODO code application logic here
        System.out.println("press 1 for continue statement or press
2 for break statement");

        Scanner sc = new Scanner(System.in);
        int user = sc.nextInt();
        int num = user;
        switch(num) {
            case 1:
                for (int i = 0; i < 10; i++) {

            // If the number is 2

            // skip and continue

            if (i == 2)
```

```
            continue;

            System.out.print(i + " ");

        }
            break;
        case 2:

            // Initially loop is set to run from 0-9

        for (int i = 0; i < 10; i++) {

            // Terminate the loop when i is 5

            if (i == 5)

                break;

            System.out.println("i: " + i);

        }

        System.out.println("Out of Loop");

            break;
        default :
            System.out.println("Invalid Option");
        }
    }

}
```

---

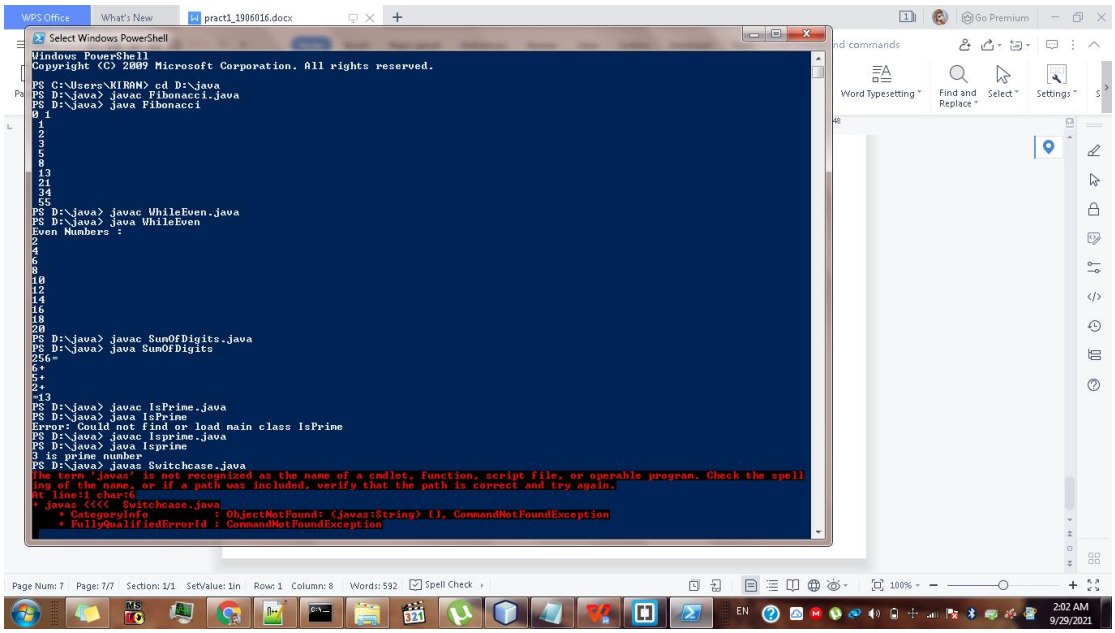
output:

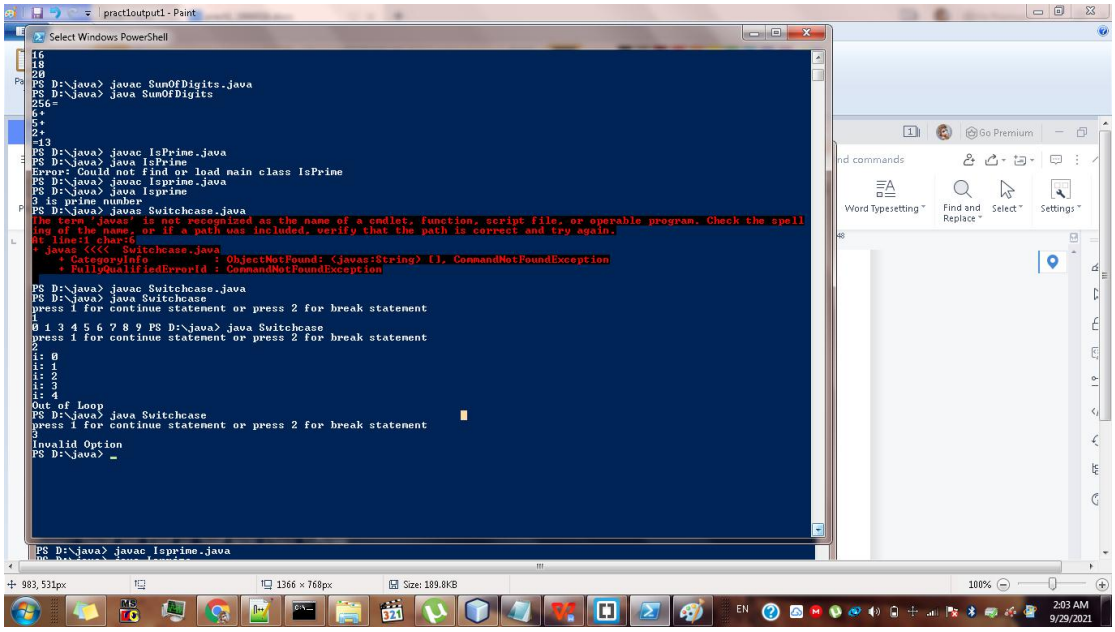
```
PS D:\java> javac Switchcase.java
```

PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
2
i: 0
i: 1
i: 2
i: 3
i: 4
Out of Loop
PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
1
0 1 3 4 5 6 7 8 9 PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
3
Invalid Option
PS D:\java>

==========

Output :




prac1output1 - Paint
Select Windows PowerShell
16
18
20
PS D:\java> javac SumOfDigits.java
PS D:\java> java SumOfDigits
256=
6+
5+
2+
=13
PS D:\java> javac IsPrime.java
PS D:\java> java IsPrime
Error: Could not find or load main class IsPrime
PS D:\java> javac Isprime.java
PS D:\java> java Isprime
3 is prime number
PS D:\java> javas Switchcase.java
The term 'javas' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:6
+ javas <<<< Switchcase.java
+ CategoryInfo : ObjectNotFound: (javas:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
PS D:\java> javac Switchcase.java
PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
1
0 1 3 4 5 6 7 8 9 PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
2
i: 0
i: 1
i: 2
i: 3
i: 4
Out of Loop
PS D:\java> java Switchcase
press 1 for continue statement or press 2 for break statement
3
Invalid Option
PS D:\java> _
PS D:\java> javac Isprime.java
Word Typesetting
Find and Replace
Select
Settings
983, 531px
1366 × 768px
Size: 189.8KB
100%
EN
2:03 AM
9/29/2021