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std : 3rd year (G3)

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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

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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>

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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>

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Output :



