OOP using JAVA – practical 01

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1. Write your first java program to display “Hello World” on the screen.

**package com.mycompany.anjana1;**

**public class Anjana1 {**

**public static void main(String[] args) {**

**System.out.println("Hello World");**

**}**

**}**

2. Write a program to display your name on the first line and to display your degree program on the second line on the screen. Please use command line (cmd) to execute your code

**package com.mycompany.anjana1;**

**public class Anjana1 {**

**public static void main(String[] args) {**

**System.out.println("Tharuka Anjana");**

**System.out.println("BSc(hons)computer science");**

**}**

**}**

**3.** Write down a program to get the following output using a for loop. Repeat the same example by using a while loop.

Executing Loop 0

Executing Loop 1

Executing Loop 2

Executing Loop 3

Executing Loop 4

Using for loop :

**package com.mycompany.anjana 1;**

**public class Anjana1 {**

**public static void main(String[] args) {**

**int x;**

**for(x = 0;x < 5;x++){**

**System.out.println("Executing Loop " + x);**

**}**

**}**

**}**

Using while loop :

**package com.mycompany. anjana1;**

**public class Anjana1 {**

**public static void main(String[] args) {**

**int x = 0;**

**while(x < 5){**

**System.out.println("Executing " + x);**

**x++;**

**}**

**}**

**}**

4.Write a class and insert the following code block into the appropriate place. Execute the code and get the result.

int [] numbers = {10, 20, 30, 40, 50};

for(int x : numbers ){

if( x == 30 ){

break;

}

System.out.print( x );

System.out.print("\n");

}

System.out.print(“I’m out of the Loop now"); “

Results:

**10**

**20**

**I'm out of the Loop now**

Repeat the same code using “continue” instead of “break”. Write down the output.

Results:

**10**

**20**

**40**

**50**

**I'm out of the Loop now**

5.Write a class and insert the following code block into the appropriate place. Execute the code and get the result.

1. char grade =‘A’;
2. switch(grade)
3. {
4. case 'A' :
5. System.out.println("Excellent!");
6. break;
7. case 'D' :
8. System.out.println("You passed");
9. case 'F' :
10. System.out.println("Better try again");
11. break;
12. default :
13. System.out.println("Invalid grade");
14. }
15. System.out.println("Your grade is " + grade);

**public class Anjana1 {**

**public static void main(String[] args) {**

**char grade = 'A';**

**switch(grade)**

**{**

**case 'A' :**

**System.out.println("Excellent!");**

**break;**

**case 'D' :**

**System.out.println("You passed");**

**case 'F' :**

**System.out.println("Better try again");**

**break;**

**default :**

**System.out.println("Invalid grade");**

**}**

**System.out.println("Your grade is " + grade);**

**}**

**}**

Result :

**Excellent!**

**Your grade is A**

Repeat the same removing “break” command at line number 6. Write down the output.

Result :

**Excellent!**

**You passed**

**Better try again**

**Your grade is A**

Repeat the same scenario by using if-else-if statement instead of switch case.

**public class Anjana1 {**

**public static void main(String[] args) {**

**char grade = 'A';**

**if(grade == 'A'){**

**System.out.println("Excellent");**

**}else if(grade == 'D'){**

**System.out.println("You passed");**

**}else if(grade == 'F'){**

**System.out.println("Better try again");**

**}**

**System.out.println("Your grade is " + grade);**

**}**

**}**

6.As of java 5 the enhanced for loop was introduced. This is mainly used for Arrays. Below code contains few mistakes. First execute the code. Then identify the errors printed on the console. Rectify all the errors and execute to get the output:

class TestEnhanceForLoop {

public static void mains(String args[]){

int [] numbers = {10, 20, 30, 40, 50};

**for(int x : numbers ){**

**System.out.print( x );**

**System.out.print(",")**

**}**

System.out.print("\n");

String [] names ={“James”, "Larry", "Tom", "Lacy"}

**for( String name : names ) {**

**System.out.print( name );**

**System.out.print(",");**

**Correct program**

**public class TestEnhanceForLoop {**

**public static void main(String[] args){**

**int [] numbers = {10, 20, 30, 40, 50};**

**for(int x : numbers ){**

**System.out.print( x );**

**System.out.print(",");**

**}**

**System.out.print("\n");**

**TestEnhanceForLoop rr = new TestEnhanceForLoop();**

**rr.getarray();**

**}**

**public static void getarray(){**

**String [] names ={"James", "Larry", "Tom", "Lacy"};**

**for( String name : names ){**

**System.out.print( name );**

**System.out.print(",");**

**}**

**}**

**}**

**Out put :**

**10,20,30,40,50,**

**James,Larry,Tom,Lacy,**