1. Write you first java programme to display “Hello World” on the screen.

package com.mycompany.practicals;

public class Practicals {

public static void main(String[] args) {

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

}

}

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

package com.mycompany.practicals;

public class Practicals {

public static void main(String[] args) {

System.out.println("Nilasi Jayathilake");

System.out.println("BSc Management information Systems");

}

}

1. Write down a programme 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

For Loop

package com.mycompany.practicals;

public class Practicals {

public static void main(String[] args) {

int i;

for(i=0;i<=5;i++){

System.out.println("Executing Loop "+i);

}

}

}

While Loop

package com.mycompany.practicals;

public class Practicals {

public static void main(String[] args) {

int i=0;

while(i<=5){

System.out.println("Executing Loop "+i);

i++;

}

}

}

1. 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:

A screenshot of a computer

Description automatically generated

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

Results:

A screenshot of a computer program

Description automatically generated

1. Write a class and insert the following code block into the appropriate place. Execute the code and get the result.
2. char grade =‘A’;
3. switch(grade)
4. {
5. case 'A' :
6. System.out.println("Excellent!");
7. break;
8. case 'D' :
9. System.out.println("You passed");
10. case 'F' :
11. System.out.println("Better try again");
12. break;
13. default :
14. System.out.println("Invalid grade");
15. }
16. System.out.println("Your grade is " + grade);

Corrected Code:

package com.mycompany.practicals;

public class Practicals {

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);

}

}

}

Results:

A screenshot of a computer program

Description automatically generated

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

A screenshot of a computer code

Description automatically generated

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

package com.mycompany.practicals;

public class Practicals {

public static void main(String[] args) {

char grade = 'F';

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");

} else {

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

}

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

}

}

Output:

A screen shot of a computer code

Description automatically generated

1. 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(",");**

Output:

package com.mycompany.practicals;

public class Practicals {

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");

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

for (String name : names) {

System.out.print(name);

System.out.print(",");

}

}

}

Results:

A screen shot of a computer code

Description automatically generated