ASSIGNMENT NO:1

(DAY 1 JAVA BY “ ZERO TO HERO ” PROGRAM)

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Q.1 Difference between compiler and Interpreter.

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| Sr.no | Points to differ | COMPILER | INTERPRETER |
| 1 | Way of Program Conversion | Program into machine code as Whole | One statement at one time |
| 2 | Generating Intermediate m/c code | Create the object file | Does not create the object file. |
| 3 | Execution Speed | Fast | Slow because of Interpretation |
| 4 | Error detection &  Removal | Difficult | Easy as one line is translated at a  Time by interpreter |
| 5 | Memory Requirement | More due to object file creation | Relatively Less |
| 6 | Efficiency | Compiled language are more efficient | Interpreted language are less efficient |
| 7 | Debugging | Slow as errors are encounter after checking all program | Good for fast debugging |
| 8 | Pertaining Programming Language | C, C++,Java, | Python , PHP, Perl |

Q.2 Java Program

**import** java.util.Scanner;

**class** Students {

**static** **int** *rollno*;

**static** String *name*;

**static** **float** *Marks*;

Scanner SC = **new** Scanner(System.***in***);

**public** **void** input()

{

System.***out***.print("Enter Name: ");

*name*=SC.nextLine();

System.***out***.print("Enter Roll Number: ");

*rollno*=SC.nextInt();

System.***out***.print("Enter marks (in percentage)");

*Marks*=SC.nextInt();

}

**public** **void** display()

{

System.***out***.println("\n\nrollno Name\t Marks ");

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

System.***out***.println(+*rollno*+" \t"+*name*+" \t"+*Marks*);

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

}

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

// **TODO** Auto-generated method stub

Students s1,s2,s3;

s1=**new** Students();

s1.input();

s1.display();

s2=**new** Students();

s2.input();

s2.display();

s3=**new** Students();

s3.input();

s3.display();

**int** n=8;

**for**(**int** i=1;i<=8;i++) {

}

}

}

Enter Name: neha

Enter Roll Number: 1

Enter marks (in percentage)92

rollno Name Marks

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1 neha 92.0

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Enter Name: mitali

Enter Roll Number: 2

Enter marks (in percentage)89

rollno Name Marks

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2 mitali 89.0

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Enter Name: chitra

Enter Roll Number: 3

Enter marks (in percentage)98

rollno Name Marks

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3 chitra 98.0

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