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| *The assignment sheet is designed for 50 marks.*  Download the assignment sheet, save it on your computer/laptop, work on the tasks, and upload the document with answers on the LMS before 07.00 pm on 08 May 2020.  **Late submissions are strictly not allowed under any circumstances.** |

**EMAIL WRITING**

**Read the email given below and work on the tasks given later.**

From: “Vivian Armstrong” [varmstrong@duncanpharm.com](mailto:varmstrong@duncanpharm.com)

Subject: Duncan Pharmaceuticals

To: “Lara Cline” [LCline1@vhs.com](mailto:LCline1@vhs.com)

Hey Ms. Cline,

Thanks for the invite to the Drug Manufacturer’s Fair your hospital is hosting on January

16. Our PR department gave me the invitation and so I’m going to represent Duncan

Pharmaceuticals at the fair. They just hired me as the pharm. rep for your area.

My district manager told me I should set up an appointment to get read for the fair. We’re

pretty excited to show you what products we’ve got. The new vaccines are cool like the

rabies one and then we have some de-wormers for cows too that haven’t been seen before.

Plus a lot of our older products have undergone a makeover. I’ll bring those too. I think

you should see everything we’ve got because we’ve got a lot of stuff and every hospital

should have it. Definitely my favorite of these products is the shot against kennel cough

that you can give to cats. I totally didn’t know cat’s could get the disease but just in case

Duncan Pharm. Created a way to fix the problem! That’s why I think it’s so awesome.

But that’s just my opinion, it’s gonna be yours that makes the final choice.

SO…LET ME KNOW WHEN YOU’RE AVAILABLE FOR THIS AND WE’LL

MAKE A DATE! I CAN’T WAIT!! 

Peace,

Vivian P. Armstrong

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| **TASK 1 Marks: 15 x 01 = 15** |

**The email does not qualify as a professionally-written email for several reasons. Write an analysis of why the email does not qualify as a professional email. Use 150-200 words. You may want to lay out your analysis using bulleted points.**

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| * This email does not contain subject, but professional email make use of a subject line. * Start email with greeting. * The above email does not start with formal greeting. But email Greeting should be in formal. * The above mail does not contain message informative and brief. * Grammar is not good in above email . professional email contain good grammar * In Correct usage of Tenses in above mail. * Im Proper punctuation in that mail. * Usage of prepositions in unnecessary sentences. * For professional mail , the format is like * Subject * Body * Conclusion * Signature * The above e-mail is not following this type of format. * There is no perfect signature. * Ex: Peace * Perfect signature like regards, faithfully etc. * Right form of verbs. * Ex: I should set up an appointment to get **read** for the fair. |

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| **TASK 2 Marks: 15 x 01 = 15** |

**Rewrite the email following the conventions of professional email writing.**

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| From: Vivian Armstrong< [varmstrong@duncanpharm.com](mailto:varmstrong@duncanpharm.com)>  Subject: Setting an appointment for the fair  To: Lara Cline< [LCline1@vhs.com](mailto:LCline1@vhs.com)>  Dear Ms. Cline,  Thanks for your invitation to the Drug Manufacturer’s Fair which is going to be held on January 16. Our PR department gave me the invitation .I am glad to be part of Duncan  Pharmaceuticals in the fair. They just hired me as the pharm. rep for your area.  My district manager told me to schedule an appointment to discuss about some products which are going to be exhibited in the fair. We’re pretty excited to show you the products we have.  Firstly, the newly designed vaccines are as good as rabies. We have some de-wormers for cows that haven’t been seen before.  On the other hand, a lot of our older products have undergone a makeover and I’ll also exhibit them. I think you should see everything we have because we’ve got a lot of stuff and every hospital should have it. One of the interesting products among these is the shot against kennel cough. The reason is that it is also used for curing the cats. I am not sure that cats could get the disease but just in case this vaccine will help for curing. This is a way to fix the problem. But that’s just my opinion; it’s going to be yours that makes the final choice.  So let me know when you’re available for this and we’ll fix a date.  Regards,  Vivian P. Armstrong |
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**NOTE-TAKING**

**Read the text on How is Java platform independent and work on the two tasks that are given later.**

**How is Java platform independent?**

The meaning of platform independent is that, the java source code can run on all operating systems.

A program is written in a language which is a human readable language. It may contain words, phrases etc which the machine does not understand. For the source code to be understood by the machine, it needs to be in a language understood by machines, typically a machine-level language. So, here comes the role of a compiler. The compiler converts the high-level language (human language) into a format understood by the machines. Therefore, a compiler is a program that translates the source code for another program from a programming language into executable code.

This executable code may be a sequence of machine instructions that can be executed by the CPU directly, or it may be an intermediate representation that is interpreted by a virtual machine. This intermediate representation in Java is the Java Byte Code.

**Step by step Execution of Java Program:**

* Whenever, a program is written in JAVA, the java compiles it.
* The result of the JAVA compiler is the .class file or the bytecode and not the machine native code (unlike C compiler).
* The bytecode generated is a non-executable code and needs an interpreter to execute on a machine. This interpreter is the JVM and thus the Bytecode is executed by the JVM.
* And finally program runs to give the desired output.

In case of C or C++ (language that are not platform independent), the compiler generates an .exe file which is OS dependent. When we try to run this .exe file on another OS it does not run, since it is OS dependent and hence is not compatible with the other OS.

In Java, the main point here is that the JVM depends on the operating system – so if you are running Mac OS X you will have a different JVM than if you are running Windows or some other operating system. This fact can be verified by trying to download the JVM for your particular machine – when trying to download it, you will given a list of JVM’s corresponding to different operating systems, and you will obviously pick whichever JVM is targeted for the operating system that you are running. So we can conclude that JVM is platform dependent and it is the reason why Java is able to become “Platform Independent”.

**Important Points:**

* In the case of Java, it is the magic of Bytecode that makes it platform independent.
* This adds to an important feature in the JAVA language termed as portability. Every system has its own JVM which gets installed automatically when the jdk software is installed. For every operating system separate JVM is available which is capable to read the .class file or byte code.
* An important point to be noted is that while JAVA is platform-independent language, the JVM is platform-dependent. Different JVM is designed for different OS and byte code is able to run on different OS.

(Source: https://www.geeksforgeeks.org/java-platform-independent/)

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| **TASK 3 Marks: 10 x 01 = 10** |

**Rewrite the article again and complete the Java execution flow given below.**

The meaning of platform independent is that, the java source code can run on all operating systems.

A program is written in a language which is a human readable language. It may contain words, phrases etc which the machine does not understand. For the source code to be understood by the machine, it needs to be in a language understood by machines, typically a machine-level language. So, here comes the role of a compiler. The compiler converts the high-level language (human language) into a format understood by the machines. Therefore, a compiler is a program that translates the source code for another program from a programming language into executable code.

This executable code may be a sequence of machine instructions that can be executed by the CPU directly, or it may be an intermediate representation that is interpreted by a virtual machine. This intermediate representation in Java is the Java Byte Code.

**Step by step Execution of Java Program:**

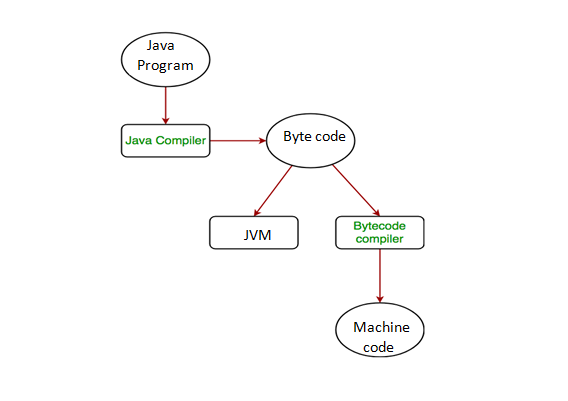
* Whenever, a program is written in JAVA, the java compiles it.
* The result of the JAVA compiler is the .class file or the bytecode and not the machine native code (unlike C compiler).
* The bytecode generated is a non-executable code and needs an interpreter to execute on a machine. This interpreter is the JVM and thus the Bytecode is executed by the JVM.
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**Important Points:**

* In the case of Java, it is the magic of Bytecode that makes it platform independent.
* This adds to an important feature in the JAVA language termed as portability. Every system has its own JVM which gets installed automatically when the jdk software is installed. For every operating system separate JVM is available which is capable to read the .class file or byte code.
* An important point to be noted is that while JAVA is platform-independent language, the JVM is platform-dependent. Different JVM is designed for different OS and byte code is able to run on different OS.

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| **TASK 4 Marks: 10 x 01 = 10** |

**Using the notes you have made, write a summary of the article. Use 80-90 words in your summary. Any summary that is above 90 and below 80 WILL NOT be considered for grading.**

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| * **JAVA is platform-independent because java program can run on all operating systems. A program is human-readable form so system cannot understand.** * **Compiler is used to convert into machine form known as Byte code which is non-executable.** * **CPU directly cannot execute the code so this is done by an interpreter known as JVM. When JDK is installed then particular OS based JVM gets installed that means JVM is platform-dependent.** * **In C or C++ they have executable code which is OS dependent.** |