Q1] Get yourself acquainted with java environment. Find out "javac" & "java" in your JDK box.

**Java** is a general-purpose, class-based, object-oriented programming language designed for having lesser implementation dependencies. It is a computing platform for application development. Java is fast, secure, and reliable,

JVM :-JVM (Java Virtual Machine) is an abstract machine. It is called a virtual machine because it doesn't physically exist. It is a specification that provides a runtime environment in which Java bytecode can be executed. It can also run those programs which are written in other languages and compiled to Java bytecode.

JRE:- JRE is an acronym for Java Runtime Environment. It is also written as Java RTE. The Java Runtime Environment is a set of software tools which are used for developing Java applications. It is used to provide the runtime environment. It is the implementation of JVM. It physically exists. It contains a set of libraries + other files that JVM uses at runtime.

JDK:- JDK is an acronym for Java Development Kit. The Java Development Kit (JDK) is a software development environment which is used to develop Java applications and [applets](https://www.javatpoint.com/java-applet). It physically exists. It contains JRE + development tools.

Javac and Java Path:

C:\Program Files\Java\jdk1.8.0\_291\bin

Q3] Write a Java program to print 'Hello' on screen and then print your name on a separate line.

class Question3{

public static void main(String[] args) {

System.out.println("HELLO");

System.out.println("Akshay");

}

}

Q4]. Write a Java program to print 'Hello' on screen and then print your name on the same line.

class Question4{

public static void main(String[] args) {

System.out.println("HELLO Akshay");

}

}

Q5]. Write a program to take "name" as command line argument and print "Hello "+<name> on the console?

class Question5{

public static void main(String[] args) {

System.out.println("Name is given: ");

System.out.println("HELLO "+args[0]);

}

}

Q6]. Write a java program to take three numbers from command line and print the average ?

class Question6{

public static void main(String[] args) {

int tot =0;

long[] num= new long[3];

for(int i=0;i<3;i++){

num[i]=Long.parseLong(args[i]);

tot+=num[i];

}

double avg= tot/3;

System.out.println("Average"+avg);

}

}

Q7]. Write a java program to calculate simple interest, get the required inputs from user ?

import java.util.Scanner;

public class Question7{

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Please enter a sum: ");

int sum = sc.nextInt();

System.out.println("Please enter a Interest: ");

float rate = sc.nextFloat();

System.out.println("Please enter a Time in year: ");

int time = sc.nextInt();

double Interest = (sum\*rate\*time)/100;

System.out.println("Total amount :"+Interest);

}

}

Q8]. Write a java program to convert temperature from celsius to fahrenheit, get input from command line ?

class Question8{

public static void main(String[] args) {

System.out.println("Enter a Temprature: ");

double t=Double.parseDouble(args[0]);

double farheneit = (9\*t/5)+32;

System.out.println("Temprature in Farheneit: "+farheneit);

}

}

Q9] Write a java program to print following face(pattern) on screen -

+"""""+

[| o o |]

| ^ |

| '-' |

+-----+

class Question9{

public static void main(String[] args) {

System.out.println("+''''''+");

System.out.println("[ o o ]");

System.out.println("| ^ |");

System.out.println("| '\_\_' |");

System.out.println("|\_\_\_\_\_\_|");

}

}

Q10] Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers received from command line?

class Question10{

public static void main(String[] args) {

System.out.println("Enter a first number: ");

long num1=Long.parseLong(args[0]);

System.out.println("Enter a Second number: ");

long num2=Long.parseLong(args[1]);

long sum = num1+num2;

System.out.println("Sum : "+sum);

long sub = num1-num2;

System.out.println("Sub : "+sub);

long mul = num1\*num2;

System.out.println("Multiply : "+mul);

long div = num1/num2;

System.out.println("Sum : "+div);

}

}