**1. what are the latest java version of in market?**

**Ans**: Java SE 18.

**2. When we install java? What are basic folders we got?**

**Ans:**

**3. When created java? and by whom?**

**Ans:** Java was developed by Sun Microsystem in1995 and James Gosling is father of java. But now the subsidiary of oracle.

**4.what are all application available in bin folder of java setup?**

**Ans:** In bin folder all java class libraries are there.

**5.What is WORA?**

**Ans**: WORA means (Write Once Run Anywhere). Developer can develop a code on one system and to run any other system without any adjustment but the JVM environment is setup of that machine.

**6.install java on your machine and down all the issue which you faced during installation?**

**Ans:** sometime path issue are facing.

**7.How to increase RAM associated to JVM in command line?**

**Ans:**

**8. How will you check JDK is installed in machine?**

**Ans:** 1. Open command prompt  
 2. Type java -version and Enter you will see the JDK and version of java

**9. can we have multiple version of java in single machine?**

**Ans:** yes we can .

**10. create java file and execute using terminal?**

**Ans:** Done

**Converation of Number system**

* Convert Below Decimal to Octal number system

1) (20) - (24)

2) (100) - (144)

3) (56) - (70)

4)(1453) - (2655)

5) (544) - (1040)

6) (78)- (116)

* Convert below decimal to binary number system

1) (20) - (10100)

2) (39) -(100111)

3) (49) - (11001)

4) (28) -(11100)

5) (126) -(1111110)

6) (156) -(10011100)

* Convert below decimal to Hexadecimal number system

1) (245) - F5

2) (45) - 2D

3) (67) - 43

4) (98) - 62

5) (712) - 2C8

Q. Write Size and range for all data types?  
 Ans: byte – 1byte Range 127 to -128  
 short- 2 bytes Range -32,768 to 32,767  
 int -4 bytes Range - -2,147,483,648 to 2,147,483,647  
 long – 8 bytes Range- -9,223,372,036,854,775,808 to   
 9,223,372,036,854,775,807  
 char – 2 bytes Range- store a single char or ASCII values  
 float – 4 bytes Range- store 6 to 7 decimal digits  
 double – 8 bytes Range – store 15 decimal digits  
 Boolean – 1 bit Range – store true or false values

Q. How many bit are there in a byte?  
 Ans: 1 byte = 8 bits and 2 byte= 16 bits

Q. What is IDE? What are 5 IDE’s in java?  
 Ans: IDE means **Integrated Development Environment** .It is software application that helps programmer to develop a code .It helps to increase developer productivity like editing, designing, testing etc.  
1.Eclipse 2.Netbeans 3.jdevelopers 4.Jcreator 5.Blue J  
  
Q. what maximum value, a byte can hold? (Byte and Bits)  
Ans: Maximum value 127 and minimum -128.  
  
Q. which variable notation is correct?  
Ans: int 1st=10; this variable notation is invalid bcoz we cannot use 1st like this variable  
 int st1=10; this is valid  
 int $12 =10; this is valid  
 int \_123 =10; this variable notation is invalid bcoz we cannot use \_123 like this variable  
 int r12@=10; this variable notation is invalid bcoz we cannot use r12@ like this variable  
 int =123 =10; this variable notation is invalid bcoz we cannot use =123= like this variable  
  
Q. Which variable notation is correct?  
Ans : int i =10; this is valid  
 int int = 20; this is invlid bcoz we can’t use variable name as notaion  
int goto = 30; this is invalid bcoz “goto” is a keyword in java  
int default =40; this is invalid bcoz “default” is a keyword in java  
int class = 50; this is invalid bcoz we cannot use class as notation class is also a keyword.  
int j =60; this is valid