***Core Java : 14-05-2018***

<http://www.examveda.com/mcq-question-on-java-program/>

<http://www.allindiaexams.in/engineering/cse/java-questions-and-answers/java-data-types>

<https://www.tutorialspoint.com/java/java_online_test.htm>

Modifier [class, method, variable]

1. Access Modifier :

public - Same Class, Same Package, Different Package.

private - Same Class, Same Package, Different Package but needs to be child class.

protected - Same Class.

default - Same Class, Same Package.

2. Non Access Modifier :

static, final, transient, abstract

Data Types of Core Java:

1. premitive data type : 8 types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Catagories** | **Length** | **Range** | **Default Value** |
| boolean | Logital | Not Applicable | false/true | false |
| char | Textual | 16bit | (216)-1 | 0 |
| byte | Integral | 8bit | -27 to (27)-1 | ‘\u000’ |
| short | Integral | 16bit | -215 to (215)-1 | 0 |
| int | Integral | 32bit | -231 to (231)-1 | 0 |
| long | Integral | 64bit | -263 to (263)-1 | 0L |
| float | Floating point | 16bit | 1.4E-45 to 3.4028235E38 | 0.0f |
| double | Floating point | 64bit | 4.9E-324 to 1.7976931348623157E308 | 0.0d |

2. class/object type :

All classess either user define/built in.

3. void.

How many kind of initilizing the field/ Global Variabele.

Initialize using default values

Initialize using explicit values

Initialize using constructor’s values

Initialize using method values

Q1-How to create a Factorial Number?

Class FactorialExample{

public static void main(String args[]){

inti, fact=1;

int number=4;

for(i=1; i<=number; i++){

fact=fact\*i;

}

System.out.println("Factorial of "+number+" is: "+fact);

}

}

Q2- How to create a Table Number?

public class Multiplication\_Table {

public static void main(String[] args) {

int n=Integer.parseInt(args[0]);

for(int i=1; i<=10; i++) {

System.out.println(n+" \* "+i+" = "+n\*i);

}

}

}

Q3- How to create a Max Or Min Number?

public class Test {

public static void main(String args[]) {

System.out.println(Math.min(40, 77));

System.out.println(Math.max(40, 100));

}

}

Q4- How to create a Total Number?

importjava.util.Scanner;

public class TestScanner{

public static void main(String[] args){

Scanner s = new Scanner(System.in);

int x = s.nextInt();

int y = s.nextInt();

int z = s.nextInt();

System.out.print("Total Number is: "+(x+y+z));

}

}

Q5- How to create a Max Or Min Number From Among Number?

import java.util.Scanner;

public class MaxMin{

public static void main(String args[]){

int min=0, max=0;

Scanner s = new Scanner (System.in);

int a[]=new int[5];

for(int i=0; i<a.length; i++){

a[i]= s.nextInt();

if(i==0){

min =a[0];

max =a[0];

}

if(a[i] >max){

max =a[i];

}

if (a[i] <min){

min =a[i];

}

}

System.out.println("The Largest number is: "+max);

System.out.println("The Smalest number is: "+min);

}

}

Q6- How to create a Prime Number by BufferedReader?

import java.io.\*;

public class Prime {

public static void main (String[] args) throws IOException{

int a;

BufferedReaderbr =

newBufferedReader(new InputStreamReader(System.in));

a=Integer.parseInt(br.readLine());

for(int i=2; i<=a; i++){

if (i==a){

System.out.println(a+"is a prime number");

} else {

if (a%i==0){

System.out.println(a+"is not a prime number");

break;

}

}

}

}

}

Q7- How to create a Prime Number by BufferedReader?