

Q.1 Point Hello, World!

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/*

Using System.out.println function

*/

class Hello {

public static void main(String[] args) {

System.out.println("Hello, World!");

}

-: Out Put :-

Hello, World!

Q.2 Pointing Basic Data Type

// Integer, Float, character, Boolean

class ~~datatype~~ Datatype {

public static void main(String[] args) {

int i = 10;

float f = 2.5;

char c = 'a';

boolean b = true;

```
System.out.println("Integer: " + i);
System.out.println("Float: " + f);
System.out.println("Character: " + c);
System.out.println("Boolean: " + b);
```

- : Output:-

Integer 10

Float 2.5

Character a

Boolean true

Q.3

Get Input From the user

// Java.util.Scanner class for user input

import java.util.Scanner;

class user {

public static void main(String[] args) {

Scanner u = new Scanner(System.in);
System.out.println("Enter name: ");

String str = u.nextLine();
System.out.println("Your name " + n);

3

-: Output :-

Enter name : Abhay
Your name Abhay

Q.4 Calculate Simple Interest

class Interest {

public static void main(String[] args) {

int p = 100;

int r = 10;

int n = 1;

float i = (p * r * n) / 100f;

System.out.println("Simple Interest is " + i);

4

-: Output :-

So Simple Interest is 10

Q.5 Create Instance of class

class Instance {

public static void main(String[] args) {

Instance i = new Instance();

System.out.print("i instance of Instance");

}

-: Output :-

i instance of Instance

Q.6. Give << operator example.

class person {

String name;

int age;

class Information {

public static void main(String[] args) {

person p = new person();

p.name = "Bhole";

p.age = 8;

System.out.println("Name is "+P.name");
System.out.println("Age is "+P.age");

7

Output :-

Name is Bhole

Name is Bhole
Age is 8

Q.7 Use assert keyword in program

Class Assert :-

public static void main (String args) {

int value = 5;

assert value > 10 : "Big";

System.out.println("Value is "+value);

8

-: Output :-

Value is 5

Q.8 Use strictfp in program

class Strict {

 public static void main (String args) {

 double num1 = 10e+10;

 double num2 = 6e+10;

 System.out.print (num1 + num2);

-: Output

160e.0500

Q.9 Create An Enum

class Enum {

enum list { High, Medium, Low }

 public static void main (String args) {

 list l = list.Medium;

 System.out.println (l);

-: Output :-

Medium

Q.10 Use Wide Typecasting

class wide {

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

```
int a = 20;
```

```
long b = a;
```

```
double c = a;
```

```
System.out.println ("Integer " + a);
```

```
System.out.println ("Long " + b);
```

```
System.out.println ("Double " + c);
```

3

-: Output :-

Integer 20

Long 20

Double 20

Q.11

Use Number type casting using valueOf()

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class Number

public static void main(String[] args) {

double i = 100.245;

int k = (int)i;

String str = String.valueOf(k);

System.out.println("Double " + i);

System.out.println("Integer " + k);

System.out.println("String " + str);

- Output :-

Double 100.245

Integer 100

String 100

Q.12 Narrow type casting using parseInt()

class typecast {

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

```
String str = "123";
```

```
int num = Integer.parseInt(str);
```

~~System.out.println("String " + str);~~~~System.out.println("Number " + num);~~

-: Output :-

String 123
Number 123

Q.13 Convert Indian currency to Dollar.

import java.util.Scanner;

class convert

~~public static void main(String[] args) {~~~~Scanner con = new Scanner(System.in);~~~~System.out.println("Enter Indian currency");~~~~double a = con.nextDouble();~~

```
double c = 89.63;  
double d = x/c;  
System.out.print("Total Doller(" + c + "));
```

-: Output :-

Entered Indian currency 8963
Total Dollar 100

Q. Write a program for If-Else Statement.

class IfElse {

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

String name = {"abc", "pqr", "xyz"};
int roll = {1, 2, 3};

if (name[0] == "abc" & roll[0] == 1) {

```
System.out.print("Info of abc");
```

else if (name[1] == "xyz" & roll[1] == 2) {
System.out.print("Info of xyz");

else if (name[2] == "pqr" & roll[2] == 3) {

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system.out.println("Info of pyo");
}
else {

system.out.println("Incorrect");

}

~~:- Output :-~~

Info of cube

Q.15 Write a program for switch case statement

class Jarswitch {

public static void main(String[] args)

String day = "Wednesday";
switch(day) {

case "mon":

System.out.println("Monday");

break;

case "tue":

System.out.println("Tuesday");
break;

case "wed":

System.out.println("Wednesday");
break;

case "thu":

System.out.println("Thursday");

}

-: Output:-

Wednesday

Q16

Write a program for for loop

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class Jamiloop {

public static void main (String args[])

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

System.out.println ("2 * " + i + " = " + i * 2)

{

}

y

:- Output :-

$$2 * 1 = 2$$

$$2 * 2 = 4$$

$$2 * 3 = 6$$

$$2 * 4 = 8$$

$$2 * 5 = 10$$

$$2 * 6 = 12$$

$$2 * 7 = 14$$

$$2 * 8 = 16$$

$$2 * 9 = 18$$

$$2 * 10 = 20$$

Q. 17

Write a program for while loop

class reverse {

public static void main (String [] args) {

```
int x = 10;  
while (x >= 1) {  
    System.out.println(x);  
    x = -x; } }
```

:- Output:-

10
9
8
7
6
5
4
3
2
1

Q.18

Write a program for do while loop

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class doWhile {

public static void main() {

int c1 = 10;

do

System.out.println(c1);

c1--;

} while (c1 != 1);

}

y

-:- Output :-

10

9

8

7

6

5

4

3

2

1

Q. 19 Write a program for break statement

class Break {

public static void main(Scanner obj)

for (int i = 0; i <= 20; i++)

if (i % 2 == 0) {

System.out.println(i);

if (i == 12) {

break;

}

}

}

-: Output:-

2

4

6

8

10

12

Q. 20 Write a program for continue statement &

class Instructions &

public static void main (String [] args)
for (int i = 0; i < 20; i++) {
if (i % 2 == 0) {

System.out.print (

)

System.out.println (");

}

}

- Output:-

2

4

6

8

10

12

14

16

18

20

Q. 21

Write a program for static statement.

class Stationary {

static int sum(int x, int
y) { return (x + y); }

}
public static void main(Stationary args)
System.out.println(sum(5, 2));

∴ Output :-

75

Q. 22

Write a program for ID class

import java.util.Arrays;

class ID {

public static void main(Stationary args) {

Stationary cities = { "Ahmedabad", "Rajkot",
"Surat" };

System.out.println(Arrays.toString(cities));

-: Output :-

[Amdeli, Rajkot, Rajulu]

Q.23

~~Write a program for multidimensional
array~~

~~import java.util.Arrays;~~

~~class grocery {~~

~~public static void main(String args){~~

~~String[] cities = {~~

~~{ "Amdeli", "Rajulu" },~~

~~{ "Rajkot", "Mahuva" }~~

~~}~~

~~System.out.print("Array.deepToString(~~

~~(cities));~~

~~y~~

~~y~~

-: Output :-

[Amdeli, Rajulu]

[Rajkot, Mahuva]

Q

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Write a program for Jagged
array.

import java.util.ArrayList;

class Jagged {

public static void main(Storage[] args)

int[][] jy = new int[2][3];

jy[0] = new int[3];

jy[1] = new int[2];

jy[0][0] = 10;

jy[0][1] = 20;

jy[1][0] = 30;

System.out.println(Arrays.deepToString(jy));

}

- :-Output:-

[10, 20, 0],

[30, 0]

Q.25

Write a program for command

line Argument

class command {

public static void main(String[] args) {

~~System.out.println(args[0]);~~~~System.out.println(args[1]);~~

}

:- Output :-

Hi
Abhey

Q.26

Write a program for object creation

class Object {

~~int x = 65;~~

public static void main(String[] args) {

Object o = new Object();

System.out.println(o.x);

}

:- Output :-

65

Q. 27

Write a program for encapsulation

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class rectangle {

int length;

int breadth;

void getdata();

int A = length * breadth;

System.out.println("Area = " + A);

}

class circle {

public static void main (String args) {

rectangle r = new rectangle();

r.length = 5;

r.breadth = 6;

r.getdata();

-Output:-

Area = 30

Q. 28

Write a program for inheritance

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class C10 {

 String name;

 public void display()

 System.out.println("C10 class");

}

class C10 {

 public static void speed()

 System.out.println("ALTO class");

y

class SuperC10 {

 public static void main(String args[])

 C10 c0 = new C10();

 c0.name = "ALTO";

 c0.speed();

 c0.display();

y

-:-Output :-

ALTO
ALTO class

C10 class

Q. 29

Write program for polymorphism

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class son {

void solve()

System.out.println("Base class");

class father extends son {

void solve()

System.out.println("Derived class");

class gfather {

public static void main(String[] args) {

father f = new father();
f.solve();

∴ Output :-

Derived Class

Q.30 Write program for default constructor

class basic {

basic() {

System.out.println("Default Constructor");

}

public static void main (String args) {

basic b = new basic();

}

}

- Output :-

Default Constructor

Q.31 Write a program for default Parameterized constructor

class jdkclass {

String fname;

int id;

jdkclass (String fname, int id) {

this.fname = fname;

this.id = id;

}

void display()

System.out.println("Name is " + name);
System.out.println("ID is " + id);

public static void main(String args[])

JFrame jc = new JFrame("hi", 1);
jc.display();

Q. 32 Write a program for copy constructor

class JFrame

String name;
int id;

JFrame(String name, int id)

this.name = name;
this.id = id;

JFrame(JFrame C of

this.name = name;

this.id = id;

class copy {

public static void main (String args) {

 copy c1 = new copy ("Hi", 1);
 System.out.println ("Name : " + c1.name + " id : "
 c1.id);

 copy c2 = new copy (c1);
 System.out.println ("Name : " + c2.name + " id : "
 c2.id);

}

-Output:-

Name : Hi id : 1
Name : Hi id : 1

Q.33 Write code for pair constructor.

class pair {

 pair () {

 System.out.println ("Pair constructor");

 public static void main (String args) {

 pair p = new pair ();

}

-: Output :-

Paintet Constructor

Q.3b Write a program for constructor
overloading

class circle {

 String model;

 int year;

 circle() {

 year = 2000;

 model = "Alpha";

 }

 circle(int year) {

 this.year = year;

 model = "Beta";

 }

 this.year = year;

 this.model = model;

}

void display()

 System.out.println("Year : " + year + " model : " + model);

 public static void main(String[] args) {

circle c1 = new circle();
circle c2 = new circle(2007);
circle c3 = new circle(2008, "Gamma");
c1.display();
c2.display();
c3.display();

}
}

-: Output :-

year 2006 model : Alpha
Year : 2007 model : Beta
Year : 2008 model : Gamma

Q.33 Write a program for method overriding

class product {

 public int multiply(int a, int b){

 int prod = a * b;
 return prod;

}

 public int multiply(int a, int b){
 int prod = a * b;

```
int prod = a*b*c;  
return prod;
```

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

```
product ab = new product();
```

```
int prod1 = ab.multiply(1,2);  
System.out.println("Two integer value  
multiplication : "+prod1);
```

```
int prod2 = ab.multiply(1,2,3);
```

```
System.out.println("Three value multiplication :  
"+prod2);
```

-: OutPut :

Two Integer value multiplication : 2
Three value multiplication : 6

Q. 36

Write a program for IIB

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public class V1

{
System.out.println("IIB executed");

public void

{
System.out.println("Constructor executed");

public static void main(String[] args){

V O1 = new V0;

V O2 = new V0;

}

}

-: Output :-

IIB Executed
Constructor executed

Q. 37

Written program for to print all numbers

class pattern {

public static void main(String[] args) {

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

System.out.print(i + " ");

}

}

-: Output:-

1 2 3 4 5 6 7 8 9 10

Q. 38

Written program for this pattern

1

101

1001

10001

class pattern {

public static void main(String[] args) {

forc int i=1; i<=5; i++ {
 forc int j=1; j<=i; j++ {

 if (i == 2) {

 boew();

}

 if (j == 1 || j == i) {

 System.out.print("J");

}

 else

 System.out.print("O");

}

 if (i != 2) {

 System.out.println();

}

}

}

-:- Output :-

I

IOJ

IOOI

IOOOI

Q. 39

Write a program to print

I 2
I 2 3
I 2 3 4
I 2 3 5

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class pattern2 {

public static void main(String[] args) {

```
for (int i = 1; i <= 5; i++) {  
    for (int j = 1; j <= i; j++) {  
        if (j != 5) {
```

System.out.print(j);

}
System.out.println();

Output :-

I

I 2

I 2 3

I 2 3 4

I 2 3 5

Q. 10

Write a program to find out the given number is odd or even.

import java.util.Scanner;
class number {

public static void main(String[] args) {

Scanner check = new Scanner(System.in);
System.out.println("Enter a number : ");

int n = check.nextInt();

if n % 2 == 0 {

System.out.println("Given number is even");

else {

System.out.println("Given number is odd");

}

}

}

-: Output :-

Enter a number : 4

Given number is even

Q. 21

Write a program to print 1st 100 odd numbers

class odd {

public static void main (String args) {

for (int i = 1; i < 200; i += 2) {

System.out.println(i);

- : OutPut:-

1	35	69	103	137	171
3	37	71	105	139	173
5	39	73	107	141	175
7	41	75	109	143	179
9	43	77	111	145	181
11	45	79	113	147	183
13	47	81	115	149	185
15	49	83	117	151	187
17	51	85	119	153	189
19	53	87	121	155	191
21	55	89	123	157	193
23	57	91	125	159	195
25	59	93	127	161	197
27	61	95	129	163	199
29	63	97	131	165	201
31	65	99	133	167	
33	67	101	135	169	

Q. 42

Write a program for static method

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class Helper

public static void int sum(int a, int b)

return a+b;

?

class G {

public static void main(String[] args) {

int n=3, m=6;

int s = Helper.sum(n, m);

System.out.print("sum is = " + s);

?

-; OutPut :-

Sum is 9

Q. 43

Write code for sum static method

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class Helper {

public int sum(int a, int b) {

return a + b;

class G {

public static void main(String args[]) {

Helper h = new Helper();

int a = h.sum(20, 80);

System.out.println("Sum is = " + a);

-Output:-

Sum is = 100

Q. 44

Write a program for Variable Arguments

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class V {

public static void Names(String... args) {

for String i : args {

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

System.out.println();

public static void main(String[] args) {

Names("Hi", "I am");

Names("Abhay", "And", "You?");

-: OutPut:-

Hi I am

Abhay And You?

Q. 45.

Write a program to get max value out of 3

class max {

 public static void main(String[] args) {

 int a = 10, b = 20, c = 30;

 if (a > b && a > c) {

 System.out.println("A is Biggest number");

 } else if (b > a && b > c) {

 System.out.println("B is Biggest number");

 } else if (c > a && c > b) {

 System.out.println("C is Biggest number");

 } else {

 System.out.println("All are equal");

 }

}

- Output :-

30 is Biggest number

Q. 46 Write a program to get 3 max number out of 10

class max3 {

public static void main(Static args) {

int c[] = new int[10];

int max1, max2, max3;

c = { 1, 2, 3, 6, 4, 3, 0, 9, 8, 7 };

max1 = max2 = max3 = Integer.MIN_Value;

for (int i = 0; i < 10; i++) {

if (c[i] > max1) {

max3 = max2;

max2 = max1;

max1 = c[i];

}

else if (c[i] > max2) {

max3 = max2;

max2 = c[i];

}

else if (c[i] > max3) {

max3 = c[i];

}

System.out.print(max1 + " " + max2 + " " + max3);

}

- Output :-

Q. 47

Write a program to print 10 given numbers in ascending order.

Class ascending {

```
public static void main(Stairgs) {
```

```
int[] arr = {7, 9, 0, 8, 2, 7, 3, 6, 4, 5};  
int temp;
```

```
for (int i = 0; i < 10; i++) {
```

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

```
if (arr[i] > arr[j]) {
```

```
temp = arr[i];
```

```
arr[i] = arr[j];
```

```
arr[j] = temp;
```

```
System.out.print(Arrays.toString(arr));
```

-: Output :-

0 1 2 3 4 5 6 7 8 9

Q.48 Write a program to check whether a given string is palindrome or not.

class palindrome {

 public static void main (String [] args) {

 String s = "MOM";

 String r = new;

 StringBuilder sr = new StringBuilder(s);

 System.out.println(sr.equals(r) ? "palindrome" : "not Palindrome");

-:Output :-

Palindrome

Q. 49

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Write a program to check whether the number is positive, negative or zero

class Numbercheck {

public static void main(String[] args) {

int m = -5;

if (m > 0) {

System.out.print("Positive");

}

else if (m < 0) {

System.out.print("negative");

}

else {

System.out.print("zero");

}

}

-:Output:-

negative

Q. 50

Write a program to find the maximum
of an array using recursion

Class maxrec {

static int max(int arr[], int i){

if(i == arr.length - 1){
return arr[i];

return Math.max(arr[i], max(arr, i+1));

}

public static void main(String[] args) {

int arr = {3, 9, 2, 8};

System.out.println(max(arr, 0));

-: Output :-

9

Q. 51

Write C++ program to find the sum of
two numbers using recursion.

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Class SumRec {

```
    static int sumRec(int arr, int i)
    {
        if(i == arr.length)
            return 0;
        return arr[i] + sumRec(arr, i+1);
    }
```

public static void main(String[] args)

```
    {
        int arr = {1, 2, 3, 4};
        System.out.print(sumRec(arr));
    }
}
```

-: Output :-

10

Q.52

Write a program to calculate the sum

of all elements in jagged array of integer

class jagged {

public static void main (String s[]) {

int a[2][3] = {{1, 2, 3}, {3, 4, 5}};

int sum = 0;

for (int i = 0; i < 2; i++)

for (int j = 0; j < 3; j++)

sum += a[i][j];

System.out.println (sum);

}

-: OutPut :-

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