WORKSHEET-2

Q1..Java method overloading implements the OOPS concept

Sol. Polymorphism

Q2.Data members and member functions of a class are private by default.

Sol. False

Q3. Data members and member functions of a class are private by default.

Sol. All

Q4. Identify the feature, which is used to reduce the use of nested classes.

Sol. Binding

Q5. .Which concept of Java is achieved by combining methods and attributes into a class?

Sol. Encapsulation

Q6. .Which of the following declarations does not

```
compile?
Sol. int num1,num2=0;
Q7.Which of these interface must contain a unique
element?
Sol. Set
Q8.Predict the output?
package main;
class T {
int t = 20;
}
class Main {
public static void main(String args[]) {
T t1 = new T();
System.out.println(t1.t);
```

```
Sol. The output of the code will be:
20
Q9. What is the output of the below Java program?
//bingo.java file
public class Hello
{
public static void main(String[] args)
{
System.out.println("BINGO");
}
Sol. The output will be:
BINGO
Q10.What will be the output of the following Java
program?
Class variable_scope
```

```
public static void main(String args[])
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int x;
x = 5;
int y = 6;
System.out.print(x + " " + y);
System.out.println(x + " " + y);
Sol. Compilation Error
Q11.What will be the output of the following Java
code?
class String_demo
```

```
public static void main(String args[])
{
char chars[] = {'a', 'b', 'c'};
String s = new String(chars); System.out.println(s);
Sol. abc
Q12. What will be the output of the following Java
program?
final class A
int i;
class B extends A
```

```
int j;
System.out.println(j + " " + i);
}
class inheritance
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public static void main(String args[])
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B obj = new B();
obj.display();
Sol. Compilation Error
Q13.What is output of following program public class
Test
```

```
public int getData() //getdata() 1
{
return 0;
}
public long getData() //getdata 2
£
return 1;
}
public static void main(String[] args)
£
Test obj = new Test();
System.out.println(obj.getData());
Sol. Compilation Error
Q14. What is the output of the following program?
```

```
public class Test{
static int start = 2;
final int end;
public Test(int x) {
x = 4;
end = x;
}
public void fly(int distance) { System.out.println(end-
start+" "); System.out.println(distance);
}
public static void main(String []args){
new Test(10).fly(5);
Sol. [2 5]
Q15.What is the output of the following program?
String john = "john";
```

```
String jon = new String(john);
System.out.println((john==jon) + " "+
(john.equals(jon)));
```

Sol. true false

Q16. Given that Student is a class, how many reference variables and objects are created by the following code?

Student studentName, studentId; studentName = new Student(); Student stud_class = new Student();

Sol. Three reference variables and two objects are created

Q17. Write a java program to check even or odd number.

Sol. import java.util.Scanner;

public class EvenOdd {

public static void main(String[] args) {

Scanner reader = new Scanner(System.in);

```
System.out.print("Enter a number: ");
int num = reader.nextInt();
if(num \% 2 == 0)
System.out.println(num + " is even");
else
System.out.println(num + "isodd");
}
}
Q18. Write a java program to find average of two
numbers.
Sol. import java.util.Scanner;
public class Average
{
   public static void main(String[] args)
   {
     Scanner input=new Scanner(System.in);
     double a,b,avg;
     System.out.print("Enter first number: ");
     a=input.nextDouble();
```

```
System.out.print("Enter second number: ");
     b=input.nextDouble();
     avg=(a+b)/2;
     System.out.println("The average of "+a+" and
"+b+" is "+avg);
}
Q19. Write a java program to swap two numbers.
Sol. import java.util.*;
class Swap_With {
  public static void main(String[] args) {
    int x, y, t; // x and y are to swap
    Scanner sc = new Scanner(System.in);
System.out.println("Enter the value of X and Y");
    x = sc.nextInt();
    y = sc.nextInt();
System.out.println("before swapping numbers: "+x +"
"+ y);
    /*swapping */
    t = x;
    x = y;
```

```
y = t;

System.out.println("After swapping: "+x +" " + y);

System.out.println();

}

Q20. Write a java program to check whether a number is prime or not
```

number is prime or not. Sol. .public class PrimeExample{ Public static void main(String args[]){ Int i,m=0,flag=0; Int n=3;//it is the number to be checked M=n/2; $If(n==0||n==1){$ System.out.println(n+" is not prime number"); }else{ For(i=2;i<=m;i++){ $If(n\%i==0){$

```
System.out.println(n+" is not prime number");
   Flag=1;
   Break;
 If(flag==0) { System.out.println(n+" is prime
number"); }
 }//end of else
}
Q21. Write a java program to find table of n.
Sol. import java.util.Scanner;
public class TableExample
public static void main(String args[])
Scanner sc = new Scanner(System.in);
System.out.print("Enter number: ");
//reading a number whose table is to be print
```

```
int num=sc.nextInt();
/\!\!/
loop start execution form and execute until the condi
tion i<=10 becomes false
for(int i=1; i <= 10; i++)
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//prints table of the entered number
  System.out.println(num+" * "+i+" = "+num*i)
Q22. Write a java program to find the largest of three
numbers.
Sol. import java.util.Scanner;
public class CodesCracker
 public static void main(String[] args)
   int a, b, c, large;
   Scanner scan = new Scanner(System.in);
```

```
System.out.print("Enter the First Number: ");
   a = scan.nextInt();
System.out.print("Enter the Second Number: ");
   b = scan.nextInt();
   System.out.print("Enter the Third Number: ");
   c = scan.nextInt();
   if(a>b && a>c)
     large = a;
   else if(b>a && b>c)
     large = b;
   else
     large = c;
   System.out.println("\nLargest = " +large);
}
Q23. Write a java program to calculate Simple Interest
public class Main
{
  public static void main (String args[])
  { float p, r, t, si;
```

```
p = 13000; r = 12; t = 2;
         si = (p*r*t)/100;
   System.out.println("Simple Interest is: " +si);
}
Q24. Write a java program to calculate Area and
perimeter of Rectangle.
Sol. import java.util.Scanner;
public class Area_Perimeter
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public static void main(String[] args)
£
int I, b, perimeter, area;
Scanner s = new Scanner(System.in);
 System.out.print("Enter length of rectangle:");
  I = s.nextInt();
System.out.print("Enter breadth of rectangle:");
```

```
b = s.nextInt()
perimeter = 2 * (l + b);
System.out.println("Perimeter of
rectangle:"+perimeter);
     area = 1 * b;
System.out.println("Area of rectangle:"+area);
 }
}
Q25. Write a java program to check whether
character is vowel or consonant.
Sol. import java.util.Scanner;
public class VowelOrConsonant {
 public static void main(String args[]){
   System.out.println("Enter a character :");
   Scanner sc = new Scanner(System.in);
   char ch = sc.next().charAt(0);
```