ASSIGNMENT – 2

1.create a java program to print your mother and father name, age,

salary, phonenumber, address like city state country.

Ans:

```java
//mother and father name, age, salary, phonenumber, address like city state country
import java.util.Scanner;
import java.lang.Long;
public class Sample1 {
public static void main(String[] args) {
int salary=100000;
String phone="8667809349";
long phoneNumber=Long.parseLong(phone);
String address="N0.2 Ranganathan nagar cumbum";
Scanner name=new Scanner(System.in);
System.out.println("Enter your mother name: ");
String father=name.nextLine();
//mother =next().Scanner
Scanner f_name =new Scanner(System.in);
System.out.println("Enter your father name: ");
String mother=f_name.nextLine();
System.out.println("Father name: "+father+"\n"+"Mother name:"+mother);
System.out.println("Salary of my Parents: "+salary);
System.out.println("Father Phone-Number: "+ phoneNumber);
System.out.println("Address: "+address);
}
}
```

2.Write a java program to print the below msg in the given format

hello

welcome to

edubridge online classes

Ans:

```
public class Align_Sample {

public static void main(String[] args) {

System.out.println("hello\n welcome to\n edubridge online classes");

}

}
```

3.What is default package in java

Ans:

Import java.lang package internally by default

In java there are two packages java.lang package and a no-name

package(also called as default package) are imported by default in all the

classes in java

4.Scanner class is in which package?

Ans: java.util package

ex: import java.util.Scanner//import the scanner class

5.list the methods of Scanner class.

Ans:

✓ nextFloat()------return float value

✓ nextInt()---------return int value

✓ next()-------return strings

✓ next().charAt(0)----return character

✓ nextLine()-----read string value from the user

✓ nextDouble()----reads a double value

✓ nextShort()-----reads a short value form the user

6.list the types of datatypes with size and give an example of each by doing declaring and initializating the variables.

1. Primitive datatype

• Integer – short-2 bytes, int – 4 bytes.(eg: int a=4)

• Float – 4 bytes.(eg:float b=4.5)

• Double – 8 bytes.

• Character – 2 bytes.(eg: char grade=A)

• Boolean – 1 byte.(eg: boolean flag=true)

2. Derived datatype

• String

• Objects

• Array

• Enum

7.Write a program to display the names of your 5 friends.

```
import java.util.Scanner;
class Friends
{
public static void main(String[] args)
{
String a,b,c,d,e;
Scanner scanner=new Scanner(System.in);
System.out.println("Enter the names:\n");
a=scanner.nextLine();
b=scanner.nextLine();
c=scanner.nextLine();
d=scanner.nextLine();
e=scanner.nextLine();
System.out.println("friends names are:\n"+a+"\n"+b+"\n"+c+"\n"+d+"\n"+e+"\n");
}
}
```

8.Write a program to do addition 5 number

```java
import java.util.Scanner;

class Add
{
public static void main(String[]args)
{
int l,m,n,o,p,sum;
Scanner sc=new Scanner(System.in);
System.out.println("Enter the numbers:\n");
l=sc.nextInt();
m=sc.nextInt();
n=sc.nextInt();
o=sc.nextInt();
p=sc.nextInt();
sum=l+m+n+o+p;
System.out.println("sum is\t"+sum);
}
}
```

9) Write a program to display your name in short like

yourname.fathernamefirstletter.sirnamefirstletter

```java
public class FirstLetter {
 public static void main(String[] args) {
 String myname = "Vipul";
 String fathername = "Rajendran";
 char myChar = myname.charAt(0);
 char fatherChar = fathername.charAt(0);
 System.out.println("First Character Of My Name Is : " + myChar);
 System.out.println("First Character Of Father Name Is : " +
fatherChar);
 }
```

}

10) Explain the public static void main(String[] args) in detail.

*The main() method is a special method in Java Programming that

serves as the externally exposed entrance point by which a Java

program can be run.

To compile a Java program, you doesn't really need a main() method in

your program.

But, while execution JVM (Java Virtual Machine) searches for the

main() method and starts executing from it.

*The main() method must be public, it means that you can call this

method from outside of the class you are currently in.

Since it's static method , there doesn't need to be an instantiation of the

class.

It must not return any value, and it must accept a String array as a

Parameter

11)Explain the public static void main(String[] args) in detail?

a)The point from where the program starts its execution or simply the entry point of Java

programs is the main() method.

-> Here public is the access specifier, static is the keyword, void is the return type, main is the

function, String[]args is the array of string type.

12.Write a program to display names of days by using commandLine arguments.

import java.io.*;

import java.lang.*;

class Weeks{

 // Main method

 public static void main(String[] args)

 {

// days of week

```java
 String[] weekdays= { "Monday", "Tuesday", "Wednesday","Thursday",

"Friday","Saturday","sunday" };

 // Iterating 7 times only

 // since there are 7 days

 for (int d = 1; d < 8; d++) {

 // Message printing days in a week

 System.out.println(d + "st weekday - "+ weekdays[d - 1]);

 }

 }

}
```

13.What are the rules of naming the java file.

• File name should be same as the class name.

• If there are multiple classes within the file and all the classes have access specifier as default

then we can save it by using any of the class same as file name.

14.what are the rules of naming the class

• class name should be named in uppercamel format.

• No space should be given between the words.

• If space is needed between words then underscore(_) and dollar($) symbol should be used

between the words.

• Name should be unique.

• Name should not be a keyword.

15.what are the rules for naming the methods

• Method name follows the lowercamel case.

• Method name should be unique.

• No space should be given between words.

• Method name should not be a keyword.

16.what are the rules for naming variables in java

• Variable name follows the lowercamel case.

• Variable name should be unique.

• No space should be given between words.

• Variable name should not be a keyword.

17.which is the main entry point of java program

• public static void main(String[] args) is the main entry point of java program.

18.who is invoking the main method of java

• JVM is invoking the main method of java.

19.why main has to be static method

• Java main() method is always static, so that compiler can call it without the creation of an

object or before the creation of an object of the class.