ASSIGNMENT 2

1) **Create a java program to print your father ,mother name, age, salary, phonenumber , address likecity ,state?**

PROGRAM:

```java
import java.util.Scanner;

public class FamilyDetails

{

    public static void main(String[] args)
     {
    String fname;
            String mname;
            int fage;
            int mage;
            long phonenumber;
            String address;
            int salary;
            Scanner obj=new Scanner(System.in);
            System.out.println("Enter your Father name:");
            fname= obj.nextLine();
            System.out.println("Enter your mother name:");
            mname= obj.nextLine();
            System.out.println("Enter the father age: ");
            fage=obj.nextInt();
            System.out.println("Enter the mother age: ");
            mage=obj.nextInt();
            System.out.println("Enter the phone number: ");
            phonenumber=obj.nextLong();
            System.out.println("Enter the father salary: ");
            salary=obj.nextInt();
}

}
```

2) Write a java Program to print the message in the given format:hello
   welcome to
   edubridge online
   classes

PROGRAM:

```
public class PrintFormat
{

public static void main(String[] args)
{
        System.out.println("hello\n   welcome to  \n        edubridge online classes");

}
```

Output:

```
hello

   welcome to

   edubridge online classes
```

3)What is the default package in java?

In Java, two packages **java.lang package** and **a no-name package** (also called default package) areimported by default in all the classes of Java. Default Package doesn't have a name but it is present by default and thus, it is named the default package. **Java Virtual Machine** imports these packagesby default in Java internally. And that is the reason we are able to access all the classes of these packages.

4)Scanner class is in which package?

The Scanner class is used to get user input, and it is found in the **java.util** package.

5)List the methods of Scanner class?

Method	Data Type	Description
nextInt()	Int	It takes int type input value from the user.
nextFloat()	Float	It takes a float type input value from the user.
nextBoolean()	Boolean	It takes a boolean type input value from the user.
nextLine()	String	It takes a line as an input value from the user.
next()	String	It takes a word as an input value from the user.
nextByte()	Byte	It takes a byte type of input value from the user.
nextDouble()	Double	It takes a double type input value from the user.
nextShort()	Short	It takes a short type input value from the user.
nextLong()	Long	It takes a long type of input value from the user.

6) **List the types of data types with size and given an example of each by during declaring andinitializing the variables?**

Data type	Size	Example
Byte	1 byte	byte sno=1;
Short	2 byte	short number=1000;
Int	4 byte	int regno=1234;
Long	8 bytes	long value=12345456 ;
Float	4 byte	float value=12.23;
Double	8 byte	double value=1234.1234;
Boolean	1 byte	Boolean value=true;
Character	2 byte	char value=x;

7) **Write a program to display the names of your 5 friends?**

PROGRAM:

```
import java.util.Scanner;
public class Friends
{
```

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

```java
            for(int i=1;i<=5;i++)
            {
            Scanner obj=new Scanner(System.in);
    System.out.println("enter your  friend name:");
            friends= obj.nextLine();
            }


        }

    }
```

8) **Write a program to do addition 5 number:**

   PROGRAM:

   ```java
   import java.util.Scanner;

   public class Addition {


           public static void main(String[] args) {

                   int a,b,c,d,e,result;

                   result=0;
   ```

```
Scanner obj=new Scanner(System.in);

System.out.println("Enter the numbers:");a = obj.nextInt();

                b = obj.nextInt();

                c = obj.nextInt();

                d = obj.nextInt();

                e = obj.nextInt();

                result=a+b+c+d+e;

                System.out.println("The resultis:"+result );




        }
        }
```

9) Write a program to display your father name and mother name?

PROGRAM:

```java
import java.util.Scanner;

public class parentsname

{

public static void main(String[] args)

{

String fname;

        String mname;

        Scanner obj=new Scanner(System.in);

        System.out.println("Enter your Father name:");

        fname= obj.nextLine();

        System.out.println("Enter your mother name:");

        mname= obj.nextLine();

        System.out.println(" Father name is:"+fname);

        System.out.println("Mother name is:"+mname);

}

}
```

10) Write a program to display your name in short like yourname. Fathername sirname.

Firstletter?

```java
import jav
a.util.Scanner;public

class name

{
```

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

     {

    String myname;

            String fname;

            Scanner obj=new Scanner(System.in);

            System.out.println("Enter your  name:");

            myname= obj.nextLine();

            System.out.println("Enter your father name first letter:");

            fname= obj.nextLine();

            System.out.print(myname);

            System.out.print(".");

            System.out.print(fname);



        }

  }
```

11) Explain the public static void main (string args[]) ?

Java :public static void main(String[] args) 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.

12) What are the rules of naming the java file?

a. File name should be same as the class name.

b. If there are multiple classes within the file and all the classes have access specifier as defaultthen we can save it by using any of the class same as file name.

13) 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 usedbetween the words.
- Name should be unique.
- Name should not be a keyword.

14) 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.

15) 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.

16) which is the main entry point of java program?

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

17) who is invoking the main method of java?

- JVM is invoking the main method of java.

18) why main has to be static method

- Java main() method is always static, so that compiler can call it without the creation of anobject or before the creation of an object of the class.