Assignment 2

1.create a java program to print your mother and father name, age, salary, phonenumber, address like city state country.

Ans:

```java
class FamilyDetails
{
public static void main(String[] args)
{
String fname="A";
byte fage=50;
float fsal=20000.50f;
long fphno=912345678;
String faddress = "123 Bangalore Karnataka India";
String mname="B";
byte mage=50;
float msal=10000.800f;
long mphno=912345679;
String maddress = "123 Bangalore Karnataka India";
System.out.println("\nFather Details");
System.out.println("--------------------------------------------------");
System.out.println("Father Name : "+fname);
System.out.println("Father's Age : "+fage);
System.out.println("Father's Salary : "+fsal);
System.out.println("Father's Phno : "+fphno);
System.out.println("Father's address : "+faddress);
System.out.println("\nMother Details");
System.out.println("---------------------------------------------------");
System.out.println("Mother Name : "+mname);
System.out.println("Mother's Age : "+mage);
System.out.println("Mother's Salary : "+msal);
System.out.println("Mother's Phno : "+mphno);
```

System.out.println("Mother's address : "+maddress);

}

}

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

               hello

        welcome   to

    edubridge   online   classes

Ans:

class Format

{

public static void main(String[] args){

System.out.println("\t\t\t\thello");

System.out.println("\t\twelcome\tto");

System.out.println("\tedubridge\tonline\tclasses");

}

}

3.What is default package in java

Ans:

In Java we have two packages

lang package and a no-name package (also called default package) are imported by default

in all the classes of Java.

4.Scanner class is in which package?

Ans: Scanner is a class in java. util package.

5.list the methods of Scanner class.

Ans:

 nextInt()

 nextBoolean()

 nextLine()

 nextDouble()

nextFloat()

nextShort()

nextByte()

nextLong()

nextLine()

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

Ans:

byte - 1 byte

byte a=50;

short - 2 bytes

short b=100;

int - 4bytes

int c=250;

long - 8 bytes

long d=500;

float - 4 bytes

float e=50.5f;

double - 8 bytes

double k=66.666;

char - 2 byte

char ch='R';

boolean - 1 bit

boolean flag=true;

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

Ans:

```
public class DisplayNames {

public static void main(String[] args) {

String friend1="mamatha";
```

String friend2="meghana";

String friend3="harshita";

String friend4="sharmila";

String friend5="bhagya";

System.out.println("my friends names");

System.out.println(friend1+"\n"+friend2+"\n"+friend3+"\n"+friend4+"\n"+friend5);

}

}

8.Write a program to do addition 5 number

Ans:

```java
import java.util.Scanner;

public class Addition {

public static void main(String[] args) {

//Write a program to do addition 5 number

int num1,num2,num3,num4,num5 ;

Scanner scanner = new Scanner(System.in);

System.out.println("Enter first number:");

num1=scanner.nextInt();

System.out.println("Enter second number:");

num2=scanner.nextInt();

System.out.println("Enter third number:");

num3=scanner.nextInt();

System.out.println("Enter fourth number:");

num4=scanner.nextInt();

System.out.println("Enter fifth number:");

num5=scanner.nextInt();

//adding all 5 numbers and storing result in add which is of type int

int add = num1+num2+num3+num4+num5;

System.out.println("The sum of this 5 numbers is: " + add);

}

}
```

9.Write a program to display your,father and mother name.

Ans:

```java
public class Details {

public static void main(String[] args) {

//program to display your,father and mother name.

String name="Rashmi";

String father="A";

String mother="B";

System.out.println("My name is "+name);

System.out.println("My Father's name is "+father);

System.out.println("My Mother's name is "+mother);

}

}
```

10.write a program to display your name in short like yourname.fathernamefirstletter.sirnamefirstletter

Ans:

```java
public class MyName {

public static void main(String[] args) {

 String myName="Rashmi";

String fatherNmae="Ch";

 String surName="Ramangowda";

 // to get the first character of a String 'charAt()' is used

 System.out.println("My Name Is : "+myName+"."+fatherNmae.charAt(0)+"."+surName.charAt(0));

}

}
```

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

Ans:

public static void main(String[] args) In Java programs, the point from where the

program starts its execution or simply the entry point of Java programs is the main()

method.

 Public:- it is an access specifier that means it will be accessed by publically.

 Static:- it is access modifier that means when the java program is load then it will

create the space in memory automatically.

 Void:- it is a return type that is it does not return any value.

 main():- it is a method or a function name.

 String[] args :- String[] args in java is an array of type java. lang. String class that

stores java command line arguments

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

Ans:

import java.util.Scanner;

public class CommandLine {

public static void main(String[] args) {

// to display names of days by using commandLine arguments.

String s1,s2,s3,s4,s5,s6,s7;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first day: ");

s1 = sc.nextLine();

System.out.println("Enter the second day: ");

s2 = sc.nextLine();

System.out.println("Enter the third day: ");

s3 = sc.nextLine();

System.out.println("Enter the fourth day: ");

s4 = sc.nextLine();

System.out.println("Enter the fifth day: ");

s5 = sc.nextLine();

System.out.println("Enter the sixth day: ");

s6 = sc.nextLine();

System.out.println("Enter the seventh day: ");

s7 = sc.nextLine();

```
System.out.println("The days you have entered: ");

System.out.println(s1);

System.out.println(s2);

System.out.println(s3);

System.out.println(s4);

System.out.println(s5);

System.out.println(s6);

System.out.println(s7);

}

}
```

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

Ans:

a. File names should be nouns,

b. in mixed cases with the first letter of each internal word capitalized.

c. Use whole words and must avoid acronyms and abbreviations.

d. File name should be same as the class name

14.what are the rules of naming the class

Ans:

class naming follows upper casing rule.

 It should be uniqe and meaningful.

 Mostly prefer nouns as classnames.

 Starting letters of words should be Capitals.

 Should not start with Special symbols and numbers .

 Except '_' and '$

15.what are the rules for naming the methods

Ans:

1. should follow verbNoun format.

 2. lowerCasing rule must be followed

3. should not start with digits and special characters

4.it must be uniqe and meaningful

16.what are the rules for naming variables in java

Ans:

1. it follows lower casing

 2. it should not start with digits or numbers

 3.must be uniqe and meaningfull

4. cannot be a keyword

17.which is the main entry point of java program

Ans: The main() method is the entry point of every java program which executes first by jvm.

18.who is invoking the main method of java

Ans: jvm(java virtual machine) invokes main method of a java program.

19.why main has to be static method

Ans: main method is static , so that jvm invoke it without object creation of a class