

First Java Program Assignment Solutions

Ans:1)

```
package com.company;

import java.util.Scanner;

public class Factorial {
    public static void main(String[] args) {
        System.out.print("Enter a number:");
        Scanner in =new Scanner(System.in); //initializing a
new scanner object
        int n=in.nextInt(); //taking the input from the user
        int factorial=1;
        for(int i=1;i<=n;i++){
            factorial=factorial*i;
        }
        System.out.println("The factorial of the given number
is " + factorial);
        return;
    }
}
```

Ans:2)

```
package com.company;

import java.util.Scanner;

public class Even_odd {
    public static void main(String[] args) {
        System.out.print("Enter a number:");
        Scanner in=new Scanner(System.in); //initializing new
object of the scanner class
        int n=in.nextInt(); //taking input from the user
        if(n%2==0){ //if a number is even it would give
remainder as 0 when divided by 2
            System.out.println("The given number is an Even
number.");
        }else{
            System.out.println("The given number is an Odd
number.");
        }
        return;
    }
}
```

Ans:3)

```
package com.company;

import java.util.Scanner;

public class Greeting {
    public static void main(String[] args) {
        System.out.print("Enter a string:");
        Scanner in=new Scanner(System.in);
        String s=in.nextLine();
        System.out.println("Good morning "+ s +" ! How\'s your
day going?");
        return;
    }
}
```

Ans:4)

```
package com.company;

import java.util.Scanner;

public class Simple_Interest {
    public static void main(String[] args) {
        System.out.println("Enter the value of Principal,Rate
and Time:");
        Scanner in=new Scanner(System.in); //initializing new
object of scanner class
        //taking the input from the user
        float principal=in.nextFloat();
        float rate=in.nextFloat();
        int time=in.nextInt();
        float simple_interest=(principal*rate*time)/100;
        //calculating the simple interest
        System.out.println("The Simple Interest is: "+
simple_interest);
        return;
    }
}
```

Ans:5)

```
package com.company;

import java.util.Scanner;
```

```

public class Simple_Calculator {
    public static void main(String[] args) {
        System.out.println("Enter two numbers:-");
        Scanner in=new Scanner(System.in); //initializing a
new object of scanner class
        int a=in.nextInt();
        int b=in.nextInt();
        System.out.println("Enter a valid character:-");
        String c=in.next();
        int result=0; //variable for storing the result
        if(c.charAt(0)=='+'){
            result=a+b;
        }else if(c.charAt(0)=='-'){
            result=a-b;
        }else if(c.charAt(0)=='*'){
            result=a*b;
        }else if(c.charAt(0)=='/'){
            result=a/b;
        }else{
            System.out.println("Enter a valid character");
        }
        System.out.println("Result : " +result);
    }
}

```

Ans:6)

```

package com.company;

import java.util.Scanner;

public class Largest {
    public static void main(String[] args) {
        System.out.println("Enter Two Numbers:-");
        Scanner in =new Scanner(System.in); //initializing new
scanner class object
        //taking input from the user
        int a=in.nextInt();
        int b=in.nextInt();
        if(a>b){
            System.out.println("The bigger of two numbers is :
"+a);
        }else if(b>a){
            System.out.println("The bigger of two numbers is :
"+b);
        }else{
            System.out.println("Both the numbers are equal");
        }
        return;
    }
}

```

```
}  
}
```

Ans:7)

```
package com.company;  
  
import java.util.Scanner;  
  
public class Factors {  
    public static void main(String[] args) {  
        System.out.println("Enter a Number:-");  
        Scanner in=new Scanner(System.in);  
        int n=in.nextInt(); //taking the input from the user  
        System.out.println("The factors of the following  
number are:-");  
        for(int i=1;i<=n;i++){  
            if(n%i ==0){ //checking from 1 till n-1 ,if any  
number given remainder 0 when divided by n,then it is a factor  
of n.  
                System.out.print(i+" ");  
            }  
        }  
        return;  
    }  
}
```

Ans:8)

```
package com.company;  
  
import java.util.Scanner;  
  
public class Rupee_to_dollar {  
    public static void main(String[] args) {  
        System.out.println("Enter the currency in Rupees:-");  
        Scanner in=new Scanner(System.in); //initializing new  
object of scanner class  
        double rupee=in.nextDouble(); //taking input from the  
user  
        double us_dollars=rupee*0.013;  
        System.out.println("The corresponding currency in US  
Dollars is: "+us_dollars);  
        return;  
    }  
}
```

Ans:9)

```
package com.company;

import java.util.Scanner;

public class Continuous_sum {
    public static void main(String[] args) {
        System.out.println("Enter the numbers:-");
        int sum=0;
        Scanner in=new Scanner(System.in); //initializing a
new object of scanner class
        while(true){
            int n=in.nextInt();
            if(n==0){
                in.close();
                break;

            }else{
                sum+=n;
            }
        }
        System.out.println(sum);
    }
}
```

Ans:10)

```
package com.company;

import java.util.Scanner;

public class Maximum {
    public static void main(String[] args) {
        System.out.println("Enter the numbers:-");
        Scanner in= new Scanner(System.in); //initializing new
object of scanner class.
        int maximum=0;
        while(true){
            int n=in.nextInt();
            if(n==0){
                in.close(); //closing the scanner, a good
practise.
                break;
            }else{
                if(n>maximum){
                    maximum=n;
                }
            }
        }
    }
}
```

```
    }  
    System.out.println("The maximum of all the numbers is  
"+maximum);  
    }  
}
```