Name: Seng Enghav Id: e20200159

TP04

Java Operators, if...else and switch

1. Prime Number

- Main

- Class

```
package s2java.src.TP4;

vclass primenumber {    "primenumber": Unknown word.

int number, divisible =1;

public primenumber(int number) {    "primenumber": Unknown word.

this.number = number;
}

boolean isprime() {    "isprime": Unknown word.

if(number<=1)return false;

for (int i=2; i<number; i++) {
    if(number%i==0) {
        divisible =i;
        return false;
    }

return true;
}
</pre>
```

Result

```
PROBLEMS 31 OUTPUT DEBUG CONSOLE TERMINAL COMMENTS

PS D:\Code stock\vs code> cd "d:\Code stock\vs code\s2java\src\TP4\" ; if ($?) { javac EX1.java } ; if ($?) { java EX1 }

Input number to check whether it is prime number:
23
23 is a prime number .

PS D:\Code stock\vs code\s2java\src\TP4> [
```

2. Lucky Number

- Main

Class

Result

```
PS D:\Code stock\vs code> cd "d:\Code stock\vs code\s2java\src\TP4\" ; if ($?) { javac EX2.java } ; if ($?) { java EX2 }

>>>>Lucky Number<<</p>
Program for testing for lucky number.
Please input 6 digits number: 123321

123321 is lucky number.
```

3. Reversing Number

- Main

```
s2java.src.IP4;
       public int reverseNumber(int num, int digits) {
           int n = digits;
           for(int i=0; i<digits; i++) {</pre>
              a = (int)Math.pow(a:10.00,(n-1));
              reverseNum = reverseNum + (num%10)*a;
           return reverseNum;
15
           System.out.println(x:"-----
           System.out.println(x:" >>>>Reversing Number<<<<
           System.out.println(x:"Program for reversing a 4 digits number");
           int digits = (int) (Math.log10(number) + 1);
           if (digits != 4) {
              System.out.println(x:"\nError: Invalid input number, please input only a 4-digit number.");
              EX3 ex = new EX3();
              reverseNumber = ex.reverseNumber(number, digits:4);
           System.out.println(x:"-----");
```

- Result

4. Money Exchanges

- Result

5. Max among 8 Numbers

- Result

6. Shipping

```
this.disATOB = disATOB;
this.disBTOC = disBTOC;
    public static void main(String[] args) {
    double disAToB, disBToC, weight, liters=0;
    Scanner sc = new Scanner(System.in); Resource leak: 'sc' is never closed
    System.out.println(x:"Calculate the minimum number of liters needed to refill at point B in order to reach point C."); System.out.print(s:"Please input distance between A to B(Km): ");
      weight = sc.nextDouble();
      System.out.println();
          if(weight<=5000) {
           else if(weight<=20000) {
          else if(weight<=30000) {
    liters = EX6.minLiters(litersUsage:35);</pre>
           else if((liters+EX6.petro)>5000) {
          else {
```

- Result

```
Calculate the minimum number of liters needed to refill at point B in order to reach point C.

Please input distance between A to B(Km): 4

Please input distance between B to C(Km): 5

Please input weight of goods(Kg): 12

The minimum number of liters needed to refill at point B: -4910.0L.

PS D:\Code stock\vs code\s2java\src\TP4>
```

7. Leap Year

Result

8. Manu

```
package s2java.src.TP4;
import java.util.Scanner;
   public void Menu() {
           1. Prime number
           2. Lucky number
           3. Reversing number
           4. Money EXchange
           5. Max among 8 numbers
           Shipping
           7. Leap year
   public static void main(String[] args) {
                                             Resource leak: 'sc' is never closed
           tr.Menu();
           System.out.print(s:"Choose an option: ");
           option = sc.nextInt();
           switch(option) {
               case 1: EX1.main(args);
                  break;
               case 2: EX2.main(args);
                  break;
               case 3:EX3.main(args);
                   break;
               case 4:EX4.main(args);
                  break;
               case 5: EX5.main(args);
                  break;
                      case 6:EX6.main(args);
                           break;
                      case 7: EX7.main(args);
                           break:
                      case 0:
                           System.out.println(x:"Thank you!\n");
                           System.exit(0status:);
                           break;
            }while(option != 0);
```