

ITS1010 - Programming Fundamentals – Assignment 06
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- a. public static void myMethod() { } ; - error: reached end of file while parsing
public static void myMethod() { }
 - b. public static void main() { } - error: reached end of file while parsing
public static void main(String[] args) { }
 - c. public void static subMethod(); - error: '(' expected
public void static subMethod();
 ^
error: invalid method declaration; return type required
public void static subMethod();
 ^
error: example reached end of file while parsing
public void static subMethod();
 ^

public static void subMethod(){}
 - d. public static void () { } - error: <identifier> expected
public static void () { }
 ^

public static void abc () { }
 - e. public static void _(); - error: invalid method declaration; return type required
public static void _();
 ^

public static void _abc ()
 - f. public static void _(){} - error: as of release 9, '_' is a keyword, and may not be used as an identifier
public static void _(){}
 ^
 - g. public static void myMethod(int x;){ } - error: ',', ')', or '[' expected
public static void myMethod(int x;){ }
 ^

error: illegal start of type
public static void myMethod(int x;){ }
 ^
 - h. public static void myMethod(x) { } - error: <identifier> expected
public static void myMethod(x) { }

^

I. public static void myNewMethod(100) { } - error: illegal start of type
public static void myNewMethod(100) { }
^

j. public static void m(int a){return 0;} - error: incompatible types: unexpected
return value

public static void m(int a){return 0;}
^

k. public static void m1(){return;} - legal

l. public static int me(int a){return 0;} - legal

2. printName("CMJD"); //Line 2 - error: illegal character: '\u201c'
printName("CMJD");
^

error: illegal character: '\u201d'
printName("CMJD");
^

error: not a statement
printName("CMJD");
^

printName(CMJD); //Line 2

Example.printName("IJSE"); //Line 3 - error: illegal character: '\u201c'
Example.printName("IJSE");
^

error: illegal character: '\u201d'
Example.printName("IJSE");
^

error: not a statement
Example.printName("IJSE");
^

Example.printName(IJSE); //Line 3

MyClass.printName("CMJD");//Line 6 - error: illegal character: '\u201c'
MyClass.printName("CMJD");
^

error: illegal character: '\u201d'
MyClass.printName("CMJD");
^

error: not a statement
MyClass.printName("CMJD");
^

MyClass.printName(CMJD);//Line 6

```
3. import java.util.*;
   class example{
       public static void main(String args[]){

           total();

       }

       public static void total(){
           Scanner scan =new Scanner(System.in);
           int total=0;
           double avg=0;

           for(int i =1;i<=10;i++){
               System.out.print("Enter subject marks: ");
               int sub = scan.nextInt();
               total+=sub;

           }

           avg=(double)total/10.0;

           System.out.println("Total : "+total);

           System.out.println("Average: "+avg);
       } }
```

```
4. import java.util.*;
   class example{
       public static void main(String args[]){
           max();
       }
       public static void max(){
           Scanner scan =new Scanner(System.in);
           System.out.print("input number 01 : ");
           int nu1 =scan.nextInt();

           System.out.print("input number 02 : ");
           int nu2 =scan.nextInt();

           System.out.print("input number 03 : ");
           int nu3 =scan.nextInt();

           if(nu1>nu2 |nu1>nu3){
               System.out.println("maximum number is :"+nu1);
```

```
    }else if(nu2>nu3){  
  
        System.out.println("maximum number is :"+nu2);}   
  
    else{System.out.println("maximum number is :"+nu3);}   
  
    }        }
```

```
5. import java.util.*;  
class example{  
    public static void main(String args[]){  
        area();  
  
    }  
    public static void area(){  
        Scanner scan =new Scanner(System.in);  
  
        System.out.print("input radius : ");  
        double radius =scan.nextDouble();  
  
        double area =(22.0/7.0) * (radius* radius);  
        System.out.println("area is "+area);  
    } }
```

```
6. import java.util.*;  
class example{  
  
    public static void main(String args[]){  
        getDigitCount();  
    }  
  
    public static void getDigitCount() {  
        Scanner input = new Scanner(System.in);  
  
        System.out.print("Input a number: ");  
        int num = input.nextInt();  
  
        int total = 0;  
        while(num != 0) {  
            int rem = num % 10;  
            num /= 10;  
            total += rem;  
        }  
        System.out.print("Digit Total: " + total);  
    }  
}
```

```
}}
```

```
7. import java.util.*;
class example{
    public static void main(String args[]){
        reverse();
    }
    public static void reverse(){
        Scanner scan =new Scanner(System.in);
        System.out.print(" input number  :");
        int num =scan.nextInt();
        int reverse =0;
        while(num != 0){
            int i = num % 10;
            reverse = reverse * 10 +i;
            num /= 10;
        }
        System.out.print(" reverse is " +reverse);
    } }
```

```
8. import java.util.*;
class example{

    public static void main(String[]args){
        armstrong();
    }
    public static void armstrong(){
        Scanner scan = new Scanner(System.in);
        System.out.print("Input number : ");
        int num = scan.nextInt();

        int temp,temp2;
        temp2=temp=num;
        int count=0;
        int total=0;

        while(num!=0){
            num /= 10;
            count++;
        }
        while(temp!=0){
            int rem=temp%10;
            int pow=1;
            int count2=1;
```

```

while(count2<=count){
    pow *= rem ;
    count2++;
}
total += pow;
temp /= 10;
}
if(total==temp2){
    System.out.print(temp2+" is a armstrong number");
}
else {
    System.out.print(temp2+" is not a armstrong number");
}
}
}

```

```

9. import java.util.*;
class example{
public static void main(String[]args){
    smallest();
}

    public static void smallest(){
int i=1;
while(true){
    if(i%1==0&& i%2==0&& i%3==0&& i%4==0&& i%5==0&& i%6==0&& i%
%7==0&& i%
    8==0&& i%9==0&& i%10==0&& i%11==0&& i%12==0&& i%13==0&& i%
%14==0&& i%
    15==0&& i%16==0&& i%17==0&& i%18==0&& i%19==0&& i%20==0){
        System.out.print(i+" is smallest number");
        break;
    }
    i++;
}
}}

```

```

10. import java.util.*;
class example{
    public static void main(String[]args){

        year();
    }
}

```

```

public static void year(){
    Scanner scan=new Scanner(System.in);

    System.out.print("input year : ");
    int year =scan.nextInt();
    year= year % 4;
    if(year==0){
        System.out.println("leap year");
    }
    else{System.out.println(" not leap year");
        }
    }
}

```

```

11. import java.util.*;
class demo12{
    public static void main(String[] args) {

    int i = 1, n = 10, firstTerm = 0, secondTerm = 1;

    while (i <= n) {
        System.out.print(firstTerm + ", ");

        int nextTerm = firstTerm + secondTerm;
        firstTerm = secondTerm;
        secondTerm = nextTerm;

        i++;
    }
}

```

12.myMethod; //Line 2	error: not a statement myMethod; ^
* myMethod(); //Line 2	
myMethod(){} //Line 4	error: ';' expected myMethod(){ } ^
* myMethod(); // Line 4	

```
myMethod(){ }; //Line 5
```

```
error: ';' expected  
myMethod(){ };  
      ^
```

```
* myMethod();//Line 5
```

```
Example.myMethod();//Line 6
```

```
error: cannot find symbol  
Example.myMethod();  
      ^
```

```
* myMethod(); //Line 6
```

```
System.out.println(myMethod()); //Line 8
```

```
error: 'void' type not allowed here  
System.out.println(myMethod());  
                  ^
```

```
*System.out.println("myMethod()"); //Line 8
```

```
13. return x,y; //Line 8
```

```
14. import java.util.*;
```

```
class example{
```

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

```
    }
```

```
    public static void palindrome(){  
        Scanner input = new Scanner(System.in);
```

```
        System.out.print("Input a number: ");  
        int num = input.nextInt();    //256
```

```
        int temp = num;
```

```
        int newValue = 0;
```

```
        while(num != 0) {  
            int remain = num % 10;  
            newValue = (newValue*10) + remain;  
            num /= 10;  
        }
```

```
        if(temp == newValue) {  
            System.out.println(temp + " is a palindrome");  
        } else {  
            System.out.println(temp + " is not a palindrome");  
        } } }
```

```
15. import java.util.*;
class demo12{
public static void main(String args[]){
    Scanner scan =new Scanner(System.in);

    System.out.print("input number  :");
        int num =scan.nextInt();
        int x=0,count=0;
        String y = "",h="";

        while(num!=0){
            x= num%2;
            y=y+x;
            count++;
            num=num/2;
        }
        count--;
        while(count>=0){
            char o=y.charAt(count);
            h+=o;
            count--;
        }
    System.out.print(h);
        } }
```

16. A. byte y=100;
B. short y=122;
C. int y=100;
H. char y='A';

17. C. prints 1 3 5 3 4 6

18. C. Prints: 1,2,3,4,5,3

19. E. Prints: 1, 2, 3, 4, 9,

```
20. import java.util.*;
    class example{
    public static boolean isPass(double avg){
if(avg >50){
        return true;
    }
```

```
else{ return false;}}
```

```
public static void main(String args[]){
Scanner input=new Scanner(System.in);
System.out.print("Input average marks : ");
double avg=input.nextDouble();
System.out.println(isPass(avg) ? "Pass":"Fail");
} }
```

```
21. import java.util.*;
class example{
```

```
public static int abs(int rand){

    if(rand>=0) {
    }
return rand;
}
public static void main(String args[]){
Random r=new Random();
for(int i=0; i<10; i++){
    int rand=r.nextInt();
System.out.println("Absolute value of "+rand+" : "+abs(rand));
} } }
```

```
22. import java.util.*;
class demo12{
```

```
    public static boolean isEven(int rand){
        if(rand% 2 ==0){
            return true;}
        else{return false;}
    }
    public static void main(String args[]){
Random r=new Random();
for (int i = 0; i < 10; i++){
int rand=r.nextInt(100);
System.out.println(isEven(rand) ? rand+" is aneven number" : rand+" is an odd number
"); } } }
```

```
23. x : 100
    x : 101
    x : 100
    x : 101
    x : 101
```

24. B. return true;
C. return avg>=50;
D. if(avg>=50){return true;}else{return false;}
E. return avg>=50 ? true:false;
G. if(avg>=50){return true;} return false;

25. D. public static void myMethod(int x){
 System.out.println("myMethod : "+x);
 return;
}

G. public static int myMethod(int x){
 System.out.println("myMethod : "+x);
 return x;
}

26. import java.util.*;
class example{
 // method 1 comes here
 public static String toBinaryString(int num){

 int x=0,count=0;
 String y="",h="";

 while(num!=0){
 x= num%2;
 y=y+x;
 count++;
 num=num/2;
 }
 count--;
 while(count>=0){
 char o=y.charAt(count);
 h+=o;
 count--;
 }
 return h;

 }

 // method 2 comes here
 public static String toOctalString (int num){

```

        int x=0,count=0;
        String y="",h="";

        while(num!=0){
            x= num%8;
            y=y+x;
            count++;
            num=num/8;
        }
        count--;
        while(count>=0){
            char o=y.charAt(count);
            h+=o;
            count--;
        }
        return h ;

    }

```

// method 3 comes here

```

public static String toHexString( int num){

    int x=0,count=0;
    String y="",h="";

    while(num!=0){
        x= num%16;
        y=y+x;
        count++;
        num=num/16;
    }
    count--;
    while(count>=0){
        char o=y.charAt(count);
        h+=o;
        count--;
    }
    return h ;

}

```

```

public static void main(String args[]){
    System.out.println(toBinaryString(100)); //1100100
}

```

```
System.out.println(toOctalString(100)); //144
System.out.println(toHexString(100)); //64
}
}
```