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  ICM 106 OR23106564

pROGRAMMING FUNDAMENTALS week – 01 assignment

01.

class Example{

public static void main (String args[]){

System.out.println("institute of computer engineering Technology");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\01>java Example

institute of computer engineering Technology

02.

class Example{

public static void main(String args[]){

System.out.println("Institute of computer Engineering Technology");

System.out.println("223 A,");

System.out.println("Galle Road,");

System.out.println("Panadura");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\02>java Example

Institute of computer Engineering Technology

223 A,

Galle Road,

Panadura

03.

class Example{

public static void main(String args[]){

System.out.println("J");

System.out.println("A");

System.out.println("V");

System.out.println("A");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\03>java Example

J

A

V

A

04.

class Example{

public static void main(String args[]){

System.out.println("I");

System.out.println(1000);

System.out.println(1.23);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\04>java Example

I

1000

1.23

05.

class Example{

public static void main (String args[]){

System.out.println("Hello");

System.out.println("A");

System.out.println(1234);

System.out.println(-1234);

System.out.println(1.2334);

System.out.println(0.0032);

System.out.println(-0.0023);

System.out.println('A');

System.out.println('6');

System.out.println(true);

System.out.println(false);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\05>java Example

Hello

A

1234

-1234

1.2334

0.0032

-0.0023

A

6

true

false

06.

class Example{

public static void main(String args[]){

System.out.println("A");

System.out.println("B");

System.out.println("C");

System.out.println("D");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\06>java Example

A

B

C

D

07.

class Example{

public static void main (String args[]){

System.out.println("1");

System.out.println("2");

System.out.println("3");

System.out.println("4");

System.out.println("5");

System.out.println("6");

System.out.println("7");

System.out.println("8");

System.out.println("9");

System.out.println("10");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\07>java Example

1

2

3

4

5

6

7

8

9

10

08.

class Example{

public static void main(String args[]){

System.out.println("1");

System.out.println();

System.out.println("2");

System.out.println("3");

System.out.println();

System.out.println("4");

System.out.println("5");

System.out.println("6");

System.out.println();

System.out.println("7");

System.out.println("8");

System.out.println("9");

System.out.println("10");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\08>java Example

1

2

3

4

5

6

7

8

9

10

09.

class Example{

public static void main(String args[]){

System.out.println("A");

System.out.println("B");

System.out.println();

System.out.println("C");

System.out.println("D");

System.out.println(" ");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\09>java Example

A

B

C

D

10.

class Example{

public static void main( String args[]){

System.out.println("A");

System.out.println("B");

System.out.println();

System.out.println("C");

System.out.println("D");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\10>java Example

A

B

C

D

11.

class Example{

public static void main(String args[]){

int a;

a=100;

System.out.println("a");

System.out.println(a);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\11>java Example

a

100

12.

class Example{

public static void main (String args[]){

int a;

a=100;

System.out.println("a");

System.out.println(a);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\12>javac Example.java

Example.java:5: error: variable a might not have been initialized

System.out.println(a);

^

1 error

13.

class Example{

public static void main(String args[]){

int a= 100;

System.out.println(a);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\13>java Example

100

14.

class Example{

public static void main(String args[]){

int a;

System.out.println(a);

a=100;

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\14>javac Example.java

Example.java:4: error: variable a might not have been initialized

System.out.println(a);

^

1 error

15.

class Example{

public static void main(String args[]){

int x;

x=100;

x=200;

System.out.println(x);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\15>java Example

200

16.

class Example{

public static void main(String args[]){

int x;

x=100;

System.out.println(x);

x=200;

System.out.println(x);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\16>java Example

100

200

17.

class Example{

public static void main(String args[]){

int x=100;

int y=200;

System.out.println(x);

System.out.println(y);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\17>java Example

100

200

18.

class Example{

public static void main(String args[]){

int x;

x=1000;

System.out.println(x);

var y=2000;

System.out.println(y);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\18>java Example

1000

2000

19.

class Example{

public static void main(String args[]){

int x=100;

int y=200;

int z;

System.out.println(x);

System.out.println(y);

System.out.println(z);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\19>javac Example.java

Example.java:8: error: variable z might not have been initialized

System.out.println(z);

^

1 error

20.

class Example{

public static void main(String args[]){

int x=100,y,z=200;

System.out.println(x);

y="java";

System.out.println(y);

System.out.println(z);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\20>javac Example.java

Example.java:5: error: incompatible types: String cannot be converted to int

y="java";

^

1 error

21.

class Example{

public static void main(String args[]){

System.out.println("A");

//System.out.println("B");

System.out.println("C");

//System.out.println("D");

System.out.println("E");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\21>java Example

A

C

E

22.

class Example{

public static void main(String args[]){

System.out.println("A");

System.out.println("B");

/\*System.out.println("C");

System.out.println("D");

System.out.println("E");\*/

System.out.println("F");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\22>java Example

A

B

F

23.

class Example{

public static void main(String args[]){

int x=100;

int y=200;

System.out.println(x);

System.out.println(y);

x=y;

System.out.println(x);

System.out.println(y);

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\23>java Example

100

200

200

200

24.

class Example{

public static void main(String args[]){

System.out.println(true);

System.out.println("true");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\24>java Example

true

true

25.

class Example{

public static void main(String args[]){

System.out.println(Java);

System.out.println("Java");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\25>javac Example.java

Example.java:3: error: cannot find symbol

System.out.println(Java);

^

symbol: variable Java

location: class Example

1 error

26.

class Example{

public static void main(String args[]){

System.out.println('A');

System.out.println("A");

System.out.println('2');

System.out.println("2");

System.out.println('JAVA');

System.out.println("JAVA");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\26>javac Example.java

Example.java:7: error: unclosed character literal

System.out.println('JAVA');

^

Example.java:7: error: unclosed character literal

System.out.println('JAVA');

^

Example.java:7: error: not a statement

System.out.println('JAVA');

^

3 errors

27.

class Example{

public static void main(String args[]){

System.out.println("Hellooooo\tJAVA");

System.out.println("Hellooooo\t\t\t\tJAVA");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\27>java Example

Hellooooo JAVA

Hellooooo JAVA

28.

class Example{

public static void main(String args[]){

System.out.println("Hi\tJAVA");

System.out.println("Hello\tWorld");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\28>java Example

Hi JAVA

Hello World

29.

class Example{

public static void main(String args[]){

System.out.println("AB\nCD");

System.out.println("");

System.out.println("EF\tGH\n\nIJ\tKL");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\29>java Example

AB

CD

EF GH

IJ KL

30.

class Example{

public static void main(String args[]){

System.out.println("time-"17:56:02"");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\30>javac Example.java

Example.java:3: error: ')' expected

System.out.println("time-"17:56:02"");

^

1 error

31.

class Example{

public static void main(String args[]){

System.out.println("\'iCET\'");

System.out.println("\"Insitute of Computer Engineering Technology\"");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\31>java Example

'iCET'

"Insitute of Computer Engineering Technology"

32.

class Example{

public static void main(String args[]){

System.out.println("First Line\nSecond Line");

System.out.println("A\tB\tC");

System.out.println("D\tE\tF");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\32>java Example

First Line

Second Line

A B C

D E F

33.

class Example{

public static void main(String args[]){

System.out.println("AB\nCD");

System.out.println("AB\tCD");

System.out.println("AB\fCD");

System.out.println("AB\bCD");

System.out.println("AB\rCD");

System.out.println("AB\\CD");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\33>java Example

AB

CD

AB CD

AB♀CD

ACD

CD

AB\CD

34.

class Example{

public static void main(String args[]){

System.out.println(10+20);

System.out.println("10"+"20");

System.out.println("10"+20);

System.out.println(10+"20");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\34>java Example

30

1020

1020

1020

35.

class Example{

public static void main(String args[]){

System.out.println(20230326);

System.out.println("2023-03-26");

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\35>java Example

20230326

2023-03-26

36.

class Example{

public static void main(String args[]){

int x,y,z;

x=10;

y=20;

z=x+y;

System.out.println(x+"+"+y+"="+z);

}

}

K:\projects\MY\_PROJECTS\ICM106\Programming Fundamentals\Assignment 01\36>java Example

10+20=30

37.

class Example{

public static void main(String args[]){

int x=10,y=20;

System.out.println(x+y);

System.out.println("x"+"y");

System.out.println("x+y");

System.out.println("x"+y);

System.out.println(x+"y");

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\37>java Example

30

xy

x+y

x20

10y

38.

class Example{

public static void main(String args[]){

System.out.println(10+20+30);

System.out.println("10+20+30");

System.out.println(10+20+30);

System.out.println("10+20"+30);

System.out.println("10"+"20"+"30");

System.out.println("10"+20+30);

System.out.println(10+20+"30");

System.out.println(10+"20"+30);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\38>java Example

60

10+20+30

60

10+2030

102030

102030

3030

102030

39.

class Example{

public static void main(String args[]){

String s1="Hello";

System.out.println(s1);

System.out.println(s1.concat(" JAVA"));

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\39>java Example

Hello

Hello JAVA

40.

class Example{

public static void main(String args[]){

int x,y,z;

x=10;

y=20;

z=x+y;

System.out.println(x+"+"+y+"="+z);

z=x-y;

System.out.println(x+"-"+y+"="+z);

z=x\*y;

System.out.println(x+"\*"+y+"="+z);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\40>java Example

10+20=30

10-20=-10

10\*20=200

41.

class Example{

public static void main (String args[]){

int x,y;

x=10;

y=20;

System.out.println(x+"+"+y+"="+(x+y));

System.out.println(x+"-"+y+"="+(x-y));

System.out.println(x+"\*"+y+"="+(x\*y));

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\41>java Example

10+20=30

10-20=-10

10\*20=200

42.

class Example{

public static void main(String args[]){

int x,y;

x=100;

y=200;

System.out.println(x);

System.out.println(y);

y=x;

System.out.print(x);

System.out.print(y);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\42>java Example

100

200

100100

43.

class Example{

public static void main(String args[]){

int num=103;

if(num>0){

System.out.println(num+" is positive number");

}else if(num<0){

System.out.println(num+" is negative number");

}else{

System.out.println(num+" is 0");

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\43>java Example

103 is positive number

44.

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Input number - ");

int num=input.nextInt();

if(num>0){

System.out.println(num+" is positive number");

}else if(num<0){

System.out.println(num+" is negative number");

}else{

System.out.println(num+" is 0");

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\44>java Example

Input number - 50

50 is positive number

E:\dev\ICM106\Programming Fundamentals\Assignment 01\44>java Example

Input number - 0

0 is 0

E:\dev\ICM106\Programming Fundamentals\Assignment 01\44>java Example

Input number - -15

-15 is negative number

45.

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Enter your marks -");

int mark=input.nextInt();

if(mark>=75){

System.out.println("your grade is A");

}else if(mark>=65){

System.out.println("your grade is B");

}else if(mark>=50){

System.out.println("your grade is C");

}else{

System.out.println("your grade is F");

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\45>java Example

Enter your marks -95

your grade is A

E:\dev\ICM106\Programming Fundamentals\Assignment 01\45>java Example

Enter your marks -68

your grade is B

E:\dev\ICM106\Programming Fundamentals\Assignment 01\45>java Example

Enter your marks -55

your grade is C

E:\dev\ICM106\Programming Fundamentals\Assignment 01\45>java Example

Enter your marks -43

your grade is F

46.

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Enter your age - ");

int age=input.nextInt();

if(age<18){

System.out.println("age is not valid to vote");

}else{

System.out.println("Welcome to vote");

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\46>java Example

Enter your age - 25

Welcome to vote

E:\dev\ICM106\Programming Fundamentals\Assignment 01\46>java Example

Enter your age - 15

age is not valid to vote

47.

class Example{

public static void main(String args[]){

double x,y,z;

x=3;

y=4;

z=Math.sqrt(x\*x+y\*y);

System.out.println("Hypotenuse is "+z);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\47>java Example

Hypotenuse is 5.0

48.

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input= new Scanner(System.in);

System.out.println("Enter any number - ");

int num=input.nextInt();

int fact=1;

for(int i=1;i<num;i++){

fact=fact\*i;

}

System.out.println("the factorial of "+num+" is "+fact);

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\48>java Example

Enter any number -

5

the factorial of 5 is 24

49.

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.println("input your age -");

int age=input.nextInt();

if(age<18){

System.out.println("age is not valid to vote");

}

else{

System.out.println("welcome to vote");

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\49>java Example

input your age -

15

age is not valid to vote

E:\dev\ICM106\Programming Fundamentals\Assignment 01\49>java Example

input your age -

25

welcome to vote

50.

class Example{

public static void main(String args[]){

for(int i=-5;i<6;i++){

int result = i!=0?100/i:0;

if(i!=0){

System.out.println("100/"+i+" is "+result);

}

}

}

}

E:\dev\ICM106\Programming Fundamentals\Assignment 01\50>java Example

100/-5 is -20

100/-4 is -25

100/-3 is -33

100/-2 is -50

100/-1 is -100

100/1 is 100

100/2 is 50

100/3 is 33

100/4 is 25

100/5 is 20