GRADUATE DIPLOMA IN SOFTWARE ENGINEERING

**IJSE**

Assignment Name: Programming Fundamentals

Assignment Number : 03

Number Of Questions:45

Number Of Complete Question:45

Number Of Remaining Quedtions:

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1)

a) you use casting to convert a value from one type to another .casting is the prosess of producing a new value that has different type than it source casting between premitive types from an instance of a class to an in instace of another class.

b) in narrow type cast ,broader data type is convert to narrower data type explicity .Narrow cast is also called Explicit type convertion because narrow type cast cannot be done by jmv,programers has to explicity changed data type to narrow data type .this case lose of data can occur.

2)\* class Example{

public static void main (String args[]){

byte b1=10,b2=20,b3;

System.out.println(b3=b1+b2);

System.out.println(b3=b1+1);

System.out.println(b3=b1\*2);

}

}

Output is;

incompatible types: possible lossy conversion from int to byte

\*

3)legal answears

A

B

4)E

5)B

6A,B

7)A,B

8) E

9) C.0 to 232

D. 0 to 216

Q11

B.x=Short.MAX\_VALUE;

G. x=Integer.MAX\_VALUE;

Q12

E. None of above

Q13

A.The result of the expression (1 + 2 + “3”)would be the string “33”.

C.The result of the expression (4 + 1.0f)would be the float value 5.0f.

Q14

A.int a=(int)888.8;

C.long l=(byte)100;

D.byte z=(byte)100L;

Q15

class Example{

public static void main(String args[]){

int x=10,y=7;

System.out.println(x+y);//17

System.out.println(-x);//-10

System.out.println(-x-y);//-17

System.out.println(x-y);//3

System.out.println(+y);//7

System.out.println(+y-x);//-3

}

}

Q16

class Example{

public static void main(String args[]){

int x=100;

x=+x;

System.out.println(x);//100

x=-x;

System.out.println(x);//-100

x=-x;

System.out.println(x);//100

x=x+x;

System.out.println(x);//200

x=x-x;

System.out.println(x);//0

x=x-x;

System.out.println(x);//0

}

}

Q17

class Example{

public static void main(String args[]){

int a=10,b=7,c=-10,d=-7;

System.out.println(10%7);

System.out.println(10%5);

System.out.println(10%17);

System.out.println(5.0%1.0);

System.out.println(5.5%1.1);

}

}

Out put:

3

0

10

0.0

1.0999999999999996

Q18

class Example{

public static void main(String args[]){

int a=10,b=7,c=-10,d=-7;

System.out.println(a%b);

System.out.println(-a%b);

System.out.println(a%-b);

System.out.println(-a%-b);

System.out.println(+a%+b);

System.out.println(c%d);

System.out.println(-c%d);

}

}

Out put :

3

-3

3

-3

3

-3

3

Q19

class Example{

public static void main(String args[]){

int x=100;

System.out.println(x++);

System.out.println(x++);

x++;

System.out.println(++x);

System.out.println(x++);

}

}

Out put :

100

101

104

104

Q20

class Example{

public static void main(String args[]){

int x=100,y;

y=x++;

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

y=x++;

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

y=x++;

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

}

}

Out put :

101 100

102 101

103 102

Q21

class Example{

public static void main(String args[]){

int x=100,y;

y=++x;

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

y=++x;

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

y=++x;

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

}

}

Out put :

101 101

102 102

103 103

Q22

class Example{

public static void main(String args[]){

int x=100;

x=x++;

System.out.println(x);

x=x++;

System.out.println(x);

x=x++;

System.out.println(x);

x=++x;

System.out.println(x);

x=++x;

System.out.println(x);

x=++x;

System.out.println(x);

}

}

Out put :

100

100

100

101

102

103

Q23

class Example{

public static void main(String args[]){

int x,y;

x=y=100;

x=x++ +x++ +x++;

System.out.println(x);

y=++y + ++y + ++y;

System.out.println(y);

y=x=100;

System.out.println();

x=x++ + ++y + ++x + y++;

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

}

}

Out put :

303

306

404 102

Q24

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner i=new Scanner(System.in);

System.out.println("Maths");

double Maths=i.nextDouble();

System.out.println("Chemestry");

double Chemestry =i.nextDouble();

System.out.println("Physecs");

double Physecs=i.nextDouble();

double total=Maths+Chemestry+Physecs;

double avarege= total/3;

if (avarege>=75) {

System.out.println("pass");

}else{

System.out.println("Fail");

} } }

Q26

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner i=new Scanner(System.in);

System.out.println("Unit price");

double price=i.nextDouble();

System.out.println("amount");

double amount =i.nextDouble();

double total=price \* amount;

if (total>=1500) {

System.out.println("You are entitled for the super drow");

}else{

System.out.println("try again");

}

} }

Q27

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner i=new Scanner(System.in);

int price,amount,total,discount,newtotal;

System.out.println("Unit price");

price=i.nextInt();

System.out.println("amount");

amount=i.nextInt();

total=price \* amount;

if (total>=500){

System.out.println(newtotal=discount=tot al/100\*95);

System.out.println("Discount is" +(total/100)\*5);

}else{

System.out.println("non Discount");

System.out.println(total);

}

}}

Q28

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner i=new Scanner(System.in);

int year;

System.out.println("input year:");

year=i.nextInt();

year=year%4;

if (year==0){

System.out.println("leap year");

}else{

System.out.println("not leep year");

}

}

}

Q29

Q30

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Input an integer : ");

int x=input.nextInt();

int abs;

if(x<0){abs=-x;

}else{

abs=x;}

System.out.println("absolute value of "+x+" : "+abs);

} }

Q31

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input = new Scanner(System.in);

double currentBalance = 15000;

double dailyLimit = 15000;

System.out.println("Please Enter Your Amount");

double inputAmount = input.nextDouble();

if(currentBalance < 5000){

currentBalance = currentBalance - (currentBalance \* 0.02);

}else if(inputAmount > currentBalance){

System.out.println("Current Balance is not sufficient");

}else if(inputAmount > dailyLimit){

System.out.println("Exceed Daily Amount..! lol");

}else{

currentBalance = currentBalance - inputAmount;

System.out.println("Your current Balance is" +currentBalance);

System.out.println("Your withdraw Amount is"+currentBalance);

} }

Q32

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Input number 1 : ");

int a=input.nextInt();

System.out.print("Input number 2 : ");

int b=input.nextInt();

System.out.print("Input number 3 : ");

int c=input.nextInt();

System.out.print("Input number 4 : ");

int d=input.nextInt();

int max;

max=a;

if(b>max){

max=b;}

if(c>max){

max=c;}

if(d>max){

max=d;}

System.out.println("Maximum number is : "+max);

} }

Q33

import java.util.\*;

class Example{

public static void main(String args[]){

Scanner input=new Scanner(System.in);

System.out.print("Input an integer : ");

int num=input.nextInt();

int modular;

modular=num%2;

if(modular==0){

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

}else{

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

}}

}

Q34

import java.util.\*;

class Example{

public static void main(String args[]){

byte b=10;

short s=100;

int x=125;

long l=1500;

float f= 1.5f;

double d=21.321;

char c='c';

boolean bool=10>9;

System.out.println(b+s+x+""+f+d+c+bool); //line 1

System.out.println(""+b+s+x+f+d+c+bool); //line 2

System.out.println(b+s+x+f+d+c+""+bool); //line 3

System.out.println(b+s+x+f+d+c+bool+""); //line 4

System.out.println(bool+b+f+d+c+""+x+l); //line 5

}

}

Out put : line 1,linwe 2,line 3.

2351.521.321ctrue

101001251.521.321ctrue

356.821true

Line 4,line 5: compile error,

Q35

import java.util.\*;

class Example{

public static void main(String args[]){

int i=1,j=2,k=3,m=2;

System.out.println(i==1);//line 1

System.out.println(j==3);//line 2

System.out.println((i>1)&&(j<4));//line 3

System.out.println((m<=99)&(k<m));//line 4

System.out.println((j>=i)||(k==m));//line 5

System.out.println((k+m<j)|(3j>=k));//line 6

System.out.println(!(k>m));//line 7

} }

Out put :

true

false

false

false

true

false

false

Q36

import java.util.\*;

class Example{

public static void main(String args[]){

int x=20,y=60;

boolean bool;

System.out.println(x=10);//line 1

System.out.println(bool=true);//line 2

System.out.println(x=10>0);//line 3

System.out.println((x=10)>0);//line 4

System.out.println(bool=(x=10)>0);//line 5

System.out.println(bool+x+y>100);//line 6

}

}

Out put line1,line2,line4,line5 :

10

true

true

true

line3,line 6 ;compile error

Q37

C

D

G

H

Q38

B

Q39

A . pass

Thanking you

B .pass

Thanking you

C . Fail

Thanking you

D . pass

Thanking you

E .pass

Thanking you

F .Fail

Thanking you

G Fail

Thanking you

Q40

Line 1 = 37

Line 2 = Compile and Error

Line 3 = Error

Line 4 = -13.34999999999

Line 5 = 5.625

Line 6 = Error

Line 7 = 15.0

Line 8 = 0

Line 9 = 0

Line 10 = -10.000000000000028

Line 11 = 10

Line 12 = -9

Line 13 = 4

Line 14 = 4

Line 15 = 2

Q41

Line 1 = 2 3 4 5 11

Line 2 = Assign

Line 3 = 14 12 9 5 24

Line 4 = Assign

Line 5 = 5 5 5 5 5

Q42

Line 1 = False

Line 2 = True

Line 3 = True

Line 4 = True

Line 5 = False

Line 6 = True

Line 7 = True

Line 8 = False

Q43

Line 1 = False

Line 2 = False

Line 3 = False

Line 4 =

Line 5 = False

Line 6 = True

Line 7 = True