**Lab 3 task codes**

**Q1.**

|  |  |  |
| --- | --- | --- |
| **Data item** | **Variable name** | **Data type** |
| a) Name of vendor company | Vendor\_name | string |
| b) Inventory Item name | item\_name | string |
| c) Inventory no | inventory\_no | int |
| d) Quantity | quant | float |
| e) Price | price | float |
| f) Address of company | add\_comp | string |
| g) Date Last ordered | last\_ord | float |
| h) Reorder quantity | reorder\_quant | int |
| i) Obsolete item (yes/no) | Obso\_item | boolean |

**Q2.**

**a)**

# include<stdio.h>

int main()

{

int a;

a=5+4;

printf("5 plus 4 is: %d", a);

return 0;

}

b)

# include<stdio.h>

int main()

{

int a;

a=10/5;

printf("10 divide by 5 is: %d", a);

return 0;

}

**c)**

# include<stdio.h>

int main()

{

int a,b;

printf("ENTER A AND B: ");

scanf("%d %d",&a,&b);

if(a>b || a>10)

{

printf("TRUE\n");

}

else

printf("FALSE\n");

return 0;

}

**d)**

# include<stdio.h>

int main()

{

int a;

a=20%3;

printf("20 MOD 3 IS: %d",a);

return 0;

}

**e)**

# include<stdio.h>

int main()

{

if(5<8)

printf("This is right");

return 0;

}

**f)**

# include<stdio.h>

int main()

{

float b;

b=25%70;

printf("25 MOD 70 IS: %f",b);

return 0;

}

**g)**

#include <stdio.h>

int main() {

char a,b;

int c;

printf("Enter two characters and a number: ");

scanf("%c %c %d",&a,&b,&c);

printf("ASCII value of first character %c = %d\n", a, a);

printf("ASCII value of second character %c = %d\n", b, b);

printf("ASCII value of number %d = %d", c, c);

return 0;

}

**h)**

# include<stdio.h>

int main()

{

int a=10,b=5;

if(a>b)

printf("!NOT TRUE");

return 0;

}

**i)**

# include<stdio.h>

int main()

{

float x=25.0/70.0;

printf("25 divide by 70 is: %f", x);

return 0;

}

**j)**

# include<stdio.h>

int main()

{

int a,b;

printf("ENTER A AND B: ");

scanf("%d %d",&a,&b);

if(a>b && a>10)

{

printf("TRUE\n");

}

else

printf("FALSE\n");

return 0;

}

**k)**

# include<stdio.h>

int main()

{

float x=20\*0.5;

printf("20 multiply by 0.5 is: %f", x);

return 0;

}

**l)**

# include<stdio.h>

int main()

{

if(35<=35)

printf("YES IT IS");

return 0;

}

**m)**

# include<stdio.h>

int main()

{

float y=35/7;

printf("35 DIVIDE BY 7 IS: %f", y);

return 0;

}

**n)**

# include<stdio.h>

int main()

{

int x,y;

printf("ENTER A AND B: ");

scanf("%d %d",&x,&y);

if(x<y || y>10)

{

printf("TRUE\n");

}

else

printf("FALSE\n");

return 0;

}

**q)**

# include<stdio.h>

int main()

{

if(-35<67)

printf("-36 IS LEESER THAN 67");

return 0;

}

**Q3.**

#include <stdio.h>

int main()

{

printf(" \* \n \*\*\*\n\*\*\*\*\*\n \*\*\*\n \*\n\n");

printf("\*\*\*\*\*\*\*\*\*\*\n\*\t \*\n\*\t \*\n\*\t \*\n\*\*\*\*\*\*\*\*\*\*\n\n");

printf("\*\n\*\*\n\*\*\*\n\*\*\*\*\n\*\*\*\*\*\n\n");

printf(" \*\n \*\*\n \*\*\*\n \*\*\*\*\n\*\*\*\*\*\n\n");

printf("\* \*\n \* \*\n \*\n \* \*\n\* \*\n\n");

printf("\*\*\*\*\*\*\*\*\*\*\n\*\*\*\*\*\*\*\*\*\*\n\*\*\*\*\*\*\*\*\*\*\n\*\*\*\*\*\*\*\*\*\*\n\*\*\*\*\*\*\*\*\*\*");

}

**Q5.**

# include<stdio.h>

int main()

{

int n1=40,n2=20;

int sum,subt,multi,div,mod;

sum=n1+n2;

printf("The SUM of N1 and N2 IS: %d\n", sum);

subt=(n1-n2);

printf("Subtraction of N1 and N2 IS: %d\n", subt);

multi=(n1\*n2);

printf("Multiplication of N1 and N2 is: %d\n", multi);

div=(n1/n2);

printf("Divison of N1 by N2 is: %d\n", div);

mod=(n1%n2);

printf("Modulus of N1 and N2 is: %d ", mod);

return 0;

}

**Q6.**

/\*Declare and initialize each variable in a separate statement\*/

int main()

{

int a;

int b;

float c;

a=5;

b=6;

c=55.56;

}

/\*Declare all variables in one statement. Then, initialize each variable in separate statement\*/

int main()

{

int a,b,c;

a=5;

b=6;

c=7;

}

/\*Declare and initialize all variables in a single statement\*/

int main()

{

int a=5,b=6,c=7;

}

/\*Only declare variables a, b and declare/initialize variable c in a single statement\*/

int main()

{

int a=5,b=6,c;

c=a+b

}

**Q7.**

**1)**

/\*Try to print the value of a variable, which is not declared in your program\*/

# include<stdio.h>

int main()

{

printf("This is a: %d", a);

return 0;

/\*Error is 'a' is not declared\*/

}

**2)**

/\*Try to print the value of a variable, which is declared but not initialized in your program\*/

# include<stdio.h>

int main()

{

int a;

printf("The value of a is %d", a);

return 0;

/\* Program runs but the value of a is 0 in the output \*/

}

**3)**

/\* Try to assign the value of a variable beyond its allowable range and then print its value \*/

# include<stdio.h>

int main()

{

int a=6666688888686868686895594948;

print("Value of a is %d", a);

return 0;

}

/\*Error is that integer constant is too large\*/

**4)**

/\*Try to assign an integer variable the value of a float and then print its value\*/

# include<stdio.h>

int main()

{

int a=10;

printf("Value of a is: %f", a);

return 0;

}

/\* Program runs but the value of a is now 0.0000 in output \*/

**Q8.**

# include<stdio.h>

int main()

{

int a=10,b=50,c;

c=a+b;

printf("C equals to: %d", c);

return 0;

}