C PROGRAMMING

EXERCISE

1. #include<stdio.h>

#include<conio.h>

void main()|

{

Int a,b,c,d,e,f,g;

a=13;

b=5;

c=a+b;

d=a-b;

e=a\*b;

f=a/b;

g=a%b;

printf(“%d” ,c);

printf(“%d” ,d);

printf(“%d” ,e);

printf(“%d” ,f);

printf(“%d” ,g);

}

Output : 18 , 8 , 65, 2 , 3

1. void main()

{

int x = 16, y = 5;

printf(“%d ”, x+y);

printf(“%d ”, x-y);

printf(“%d ”, x\*y);

printf(“%d ”, x/y);

printf(“%d ”, x%y);

}

Output : 21 , 11, 80, 3 , 1

1. void main()

{

int a,b,c;

c=a+b;

printf(“%d”, c);

}

Output : 1 (but don’t know how?)

1. void main()

{

char a,b,c;

a=’A’;

b=’B’;

c=a+b;

printf(“%d”, c);

}

**Output:- -125**

1. void main()

{

printf(“%d%d%d%d \n”, 16/5,-16/5, 16/5,-16/5);

}

**Output: 3,-3,3,-3**

1. void main()

{

float c= 3.14;

printf(“%f”, c%2);

}

**Output: compile time error(because modules does not divided float by integer)**

1. Demonstrating Relational Operators

#include <stdio.h>

void main()

{

int x=10, y=20;

printf(“%d ”, x<y);

printf(“%d ”, x==y);

printf(“%d ”, x!=y);

printf(“%d ”, x>y);

printf(“%d ”, x>=y);

printf(“%d ”, x<=y);

}

**Output:1, 0, 1, 0, 0, 1**

1. What is the output of the following code?

void main()

{

int c;

x=3>2>1;

printf(“%d”, x);

}

**Output: Compli time error (because x is not define after defining we output is 0)**

1. What is the output of the following code?

void main()

{

int a,b,c ;

a=4;

b=7;

c=a==b;

printf(“%i”, c);

}

**Output: 0 (does not matter what we write d or I or others)**

1. What is the output of the following code?

void main()

{

int x = 70;

printf(“%d %d %d”, x>50, x=5, x>10);

}

**Output:** **0 5 1**

1. What is the value pof following logical expression?

5>=5 && 2<=3

**Output:1**

1. What is the value pof following logical expression?

5!=4 < 2 && 3!= 3>5

**Output:1**

1. What is the output of the following code?

void main()

{

printf (“%d”, 5>2 && 1<2);

printf (“%d”, 4>5 || 2<1);

printf (“%d”, !(2>3));

}

**Output:1 , 0, 1**

1. What is the output of the following code?

void main()

{

Int i=10;

i=10;

printf(“i = %d”, i);

}

**Output:-** 10

1. What is the output of the following code?

void main()

{

Int a=100, b=200, c;

c = (a==100 || b>200);

printf(“c=%d \n”,c);

}

**Output:c= 1**

1. What is the output of the following code?

void main()

{

int b;

b= ‘b’ > ‘B’;

printf(“%d ”,b);

}

**Output:1**

1. What is the output of the following code?

void main()

{

int x=5;

x\*= x;

printf(“%d ”, x);

}

**Output:1**

1. What is the output of the following code?

void main()

{

int x;

x=20;

x\*=30+5;

printf(“%d ”, x);

}

**Output:700**

1. What is the output of the following code?

void main()

{

int x;

x=5;

printf(“%d \n”,x);

printf(“%d \n”,--x);

printf(“%d \n”,x);

}

**Output: 5, 4, 4**

1. Program to find minimum in the given two numbers

void main()

{

int x,y,min;

x=10;

y=5;

min=(x<y)? x : y;

printf(“%d ”,min);

}

**Output: 5**

1. Program to find minimum in the given three numbers

void main()

{

int x,y,min;

x=2;

y=4;

z=1;

min=x<y && x<z ? x: y<z ? y : z;

printf(“Minimum is : %d \n ”,min);

}

**Output:1**

1. What is the output of the following code?

void main()

{

int k, num=30;

k = (num>5?(num<=10?100:200):500);

printf (“%d \n”, k);

}

**Output: 200**

1. What is the output of the following code?

void main()

{

int i;

printf (“%d ”, scanf(“%d”,&i));

//value 10 is given as input here

}

**Output:1**

printf (“%d ”, printf(“techpile”));

**output:techpile8**

1. What will be the output of the following program?

int main()

{

int i = 2;

int j = I + (1,2,3,4,5);

printf(“%d \n”,j);

return 0;

}

**Output:7 ( but don’t know)**

1. What will be the output of the following program?

void main()

{

int a = 010;

printf(“\n a= %d ”, a);

}

**Output:8**

1. What will be the output of the following program?

void main()

{

char ch = 321;

printf(“%d %c ”, ch,ch);

}

**Output:65, A**

1. What will be the output of the following program?

void main()

{

int i = 97;

printf(“%c ”, (char)i);

}

**Output:7**

1. Write a program to find sum of cubes of three given numbers.

#include<stdio.h>

void main()

{

int a,b ,c,d;

printf("Enter Three numbers:");

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

d=a\*a\*a+b\*b\*b+c\*c\*c;

printf("Sum of Cube is:%d",d);

}

1. Write a program to find squares and cubes of three given numbers.

/\* Program to find square and cubes of three given numbers \*/

#include <stdio.h>

#include <conio.h>

void main()

{

int a, b, c, as, bs, cs, ac, bc, cc;

clrscr();

printf (“Enter any three numbers \n”);

sanf (“%d%d%d”,&a,&b\*c);

as=a\*a;

bs=b\*b;

cs=as\*a;

ac=as\*a;

bc=bs\*b;

cc=cs\*c;

printf (“Square of %d \n”,a,as);

printf (“Square of %d \n”, b, bs);

printf (“Square of %d \n”, c ,cs);

printf (“Cube of %d \n”, a, ac);

printf (“Cube of %d \n”, b, bc);

printf (“Cube of %d \n”, c, cc);

}

**Correct Program:**

**#include <stdio.h>**

**void main()**

**{**

**int a, b, c, as, bs, cs, ac, bc, cc;**

**printf ("Enter any three numbers \n");**

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

**as=a\*a;**

**bs=b\*b;**

**cs=c\*c;**

**ac=a\*a\*a;**

**bc=b\*b\*b;**

**cc=c\*c\*c;**

**printf ("Square of %d is:%d\n",a,as);**

**printf ("Square of %d is:%d\n", b, bs);**

**printf ("Square of %d is:%d\n", c ,cs);**

**printf ("Cube of %d is:%d\n", a, ac);**

**printf ("Cube of %d is:%d\n", b, bc);**

**printf ("Cube of %d is:%d\n", c, cc);**

**}**

1. #include <stdio.h>

int main()

{

int a,b,c,max;

printf (“\n Enter 3 numbers”);

scanf(“%d%d%d”, &a, &b, &c);

max =a;

if (b > max)

max = b;

if (c > max)

max =c;

printf (“Largest No is %d”, max);

return 0;

}

1. #include <stdio.h>

#include <conio.h>

void main()

{

float qty, rate, net, dis=0;

clrscr();

printf (“\n Enter quantity”);

scanf(“%f”, &qty);

printf (“\n Enter rate”);

scanf(“%f”, &rate);

if(qty>=1000)

{

dis=10;

}

net = (qty\*rate)-(qty\*rate\*dis/100);

printf (“The net amount to be pay is %f”, net);

}

**Correct Code is:**

#include <stdio.h>

void main()

{

float qty, rate, net, dis=0;

printf ("\n Enter quantity");

scanf("%f", &qty);

printf ("\n Enter rate");

scanf("%f", &rate);

if(qty>=1000)

{

dis=10;

}

net = (qty\*rate)-(qty\*rate\*dis/100);

printf ("The net amount to be pay is %f", net);

}