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Qno1

Q 01.c

```
1 #include<stdio.h>
2 int main()
3 {
4     float d;
5     int a,b,c;
6     printf("Enter the id of Employee");
7     printf("\n");
8     scanf("%d",&a);
9     printf("Enter the Working Hours");
10    printf("\n");
11    scanf("%d",&b);
12    printf("Enter Salary Per Hour");
13    printf("\n");
14    scanf("%d",&c);
15    d=b*c;
16    printf(" The Salary is %.2f",d);
17    printf("\n");
18    printf("The Employee id is %d",a);
19
20
21
22
23
24 }
```

C:\Users\k224777\Desktop\Q 01.exe

```
Enter the id of Employee
1914
Enter the Working Hours
8
Enter Salary Per Hour
15000
The Salary is 120000.00
The Employee id is 1914
-----
Process exited after 9.579 seconds with return value 23
Press any key to continue . . .
```

Q no2

```
Q 01.c  Qno 2.c
1  #include<stdio.h>
2  #include<math.h>
3  int main(){
4      int a,b;
5      float c,d,e=0,f;
6      int g;
7      printf("Enter the Num 1");
8      printf("\n");
9      scanf("%d",&a);
10     printf("Enter the Num 2");
11     printf("\n");
12     scanf("%d",&b);
13     c=a+b;
14     printf("The Addition is %.1f",c);
15     printf("\n");
16     d=a*b;
17     printf("The Multiplication is %.1f",d);
18     printf("\n");
19     e=a/b;
20     printf("The Quotient is %.2f",e);
21     printf("\n");
22     f=a-b;
23     printf("The Subtraction is %.1f",f);
24     printf("\n");
25     g=a%b;
26     printf("The Remainder is %d",g);
27
28
29
30
31
32 }
```

```
C:\Users\k224777\Desktop\Qno 2.exe
Enter the Num 1
1234
Enter the Num 2
10
The Addition is 1244.0
The Multiplication is 12340.0
The Quotient is 123.00
The Subtraction is 1224.0
The Remainder is 4
-----
Process exited after 6.642 seconds with return value 18
Press any key to continue . . .
```

Qno3: Order Of Evaluation

Ans:

1) $x = 7 + 3 * 6 / 2 - 1$

a) $x = 7 + 3 * 6 / 2 - 1$ (Multiplication) "*"

b) $x = 7 + 18 / 2 - 1$ (Division) "/"

c) $x = 7 + 9 - 1$ (Addition) "+"

d) $x = 16 - 1$ (Subtraction) "-"

e) $x = 15$

2) $x = 2 \% 2 + 2 * 2 - 2 / 2$

a) $x = 2 \% 2 + 2 * 2 - 2 / 2$ (Multiplication) "*"

b) $x = 2 \% 2 + 4 - 2 / 2$ (Division) "/"

c) $x = 2 \% 2 + 4 - 1$ (Mod) "%"

d) $x = 0 + 4 - 1$ (Addition) "+"

e) $x = 4 - 1$ (Subtraction) "-"

f) $x = 3$

3) $X = (3 * 9 * (3 + (9 * 3 / (3))));$

a) $X = (3 * 9 * (3 + (9 * 3 / (3))));$ Multiplication "*"

b) $X = (27(3 + (27 / (3))));$ Division "/"

c) $X = (27(3 + (9)));$ Addition "+"

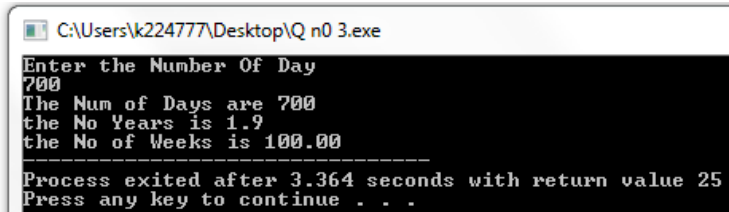
d) $X = (27 * (12));$ Multiplication "*"

e) $X = (324)$

f) $X = 324$

Q no 4

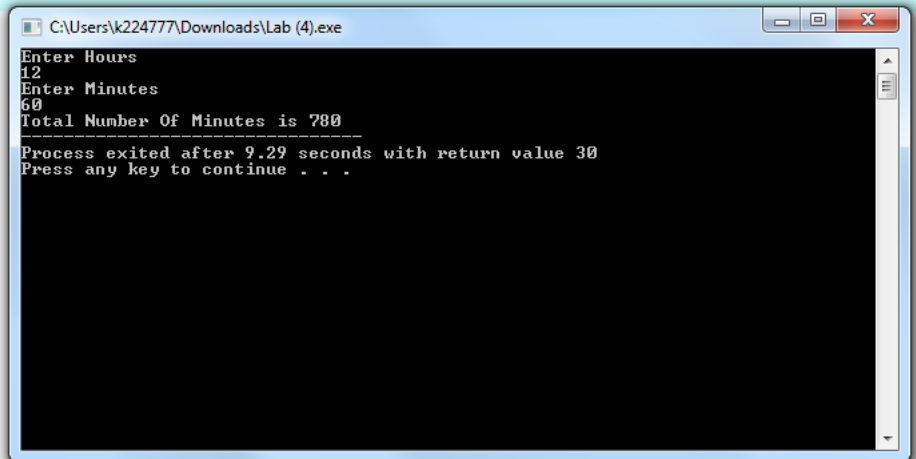
```
1 #include<stdio.h>
2 int main()
3 {
4     float a,b,c;
5     printf("Enter the Number Of Day");
6     scanf("%f",&a);
7     printf("The Num of Days are %.0f\n",a);
8     b=a/365;
9     printf("the No Years is %.1f",b);
10    c=a/7;
11    printf("\n");
12    printf("the No of Weeks is %.2f",c);
13
14
15
16
17 }
```



```
C:\Users\k224777\Desktop\Q n0 3.exe
Enter the Number Of Day
700
The Num of Days are 700
the No Years is 1.9
the No of Weeks is 100.00
-----
Process exited after 3.364 seconds with return value 25
Press any key to continue . . .
```

Qno5

```
1  #include<stdio.h>
2
3  int main()
4  {
5      float hours, minutes, c;
6      printf("Enter Hours\n");
7      scanf("%f", &hours);
8      printf("Enter Minutes\n");
9      scanf("%f", &minutes);
10     c=(hours*60)+minutes;
11     printf("Total Number Of Minutes is %.f", c);
12
13 }
```



```
C:\Users\k224777\Downloads\Lab (4).exe
Enter Hours
12
Enter Minutes
60
Total Number Of Minutes is 780
-----
Process exited after 9.29 seconds with return value 30
Press any key to continue . . .
```

Qno6

```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     float x1,x2,y1,y2,a,b,c,d,f,e;
6     printf("Enter the value of x1");
7     printf("\n");
8     scanf("%f",&x1);
9     printf("Enter the value of y1");
10    printf("\n");
11    scanf("%f",&y1);
12    printf("Enter the value of x2");
13    printf("\n");
14    scanf("%f",&x2);
15    printf("Enter the value of y2");
16    printf("\n");
17    scanf("%f",&y2);
18    a=pow((x2-x1),2);
19    b=pow((y2-y1),2);
20    c=a+b;
21    d=sqrt(c);
22    printf("The Distance Between Two Points is %.1f",d);
23    printf("\n");
24    f=(x1+x2)/2;
25    e=(y1+y2)/2;
26    printf("The Mid Point is (x3=%.1f,y3=%.1f)",f,e);
27
28 }
```

C:\Users\k224777\Desktop\Q4.exe

```
Enter the value of x1
10
Enter the value of y1
3
Enter the value of x2
6
Enter the value of y2
9
The Distance Between Two Points is 7.2
The Mid Point is (x3=8.0,y3=6.0)
-----
Process exited after 41.22 seconds with return value 32
Press any key to continue . . .
```

Qno7

```
1  #include<stdio.h>
2  int main(){
3  int a=10/2;
4  int x=4,y=5;
5  10/2 = // Output will be 5
6  True OR FALSE // Output will be True or 1
7  20%3 // Output will be 2
8  5<8 ////Condition is True
9  25%70 ///// Output will be 25
10 'A'>'H' //// In Ascii Value it is not true
11 Not True /// COndition is false output will 0
12 25/70 // Output will be 0 if we take interger Data Type Otherwise in Float it will be 0.3571428
13 False AND True // Output will be true
14 20 * 0.5 // Output will be 10
15 35<=35 // Condition is true
16
17
18 }
19
```


Qno8

```
1 #include<stdio.h>
2 int main(){
3
4     int aiman_stamps;
5     printf("Aiman Has Collected 7 Pakistani Stamps\nShe Has Collected 4 Uk Stamps\nShe Has Collected 3 Germany Stamps\nShe Has Collected 3 Australian Stamps");
6     aiman_stamps=7+4+3+3;
7     printf("\nAiman Has %d International Stamp",aiman_stamps);
8 }
```

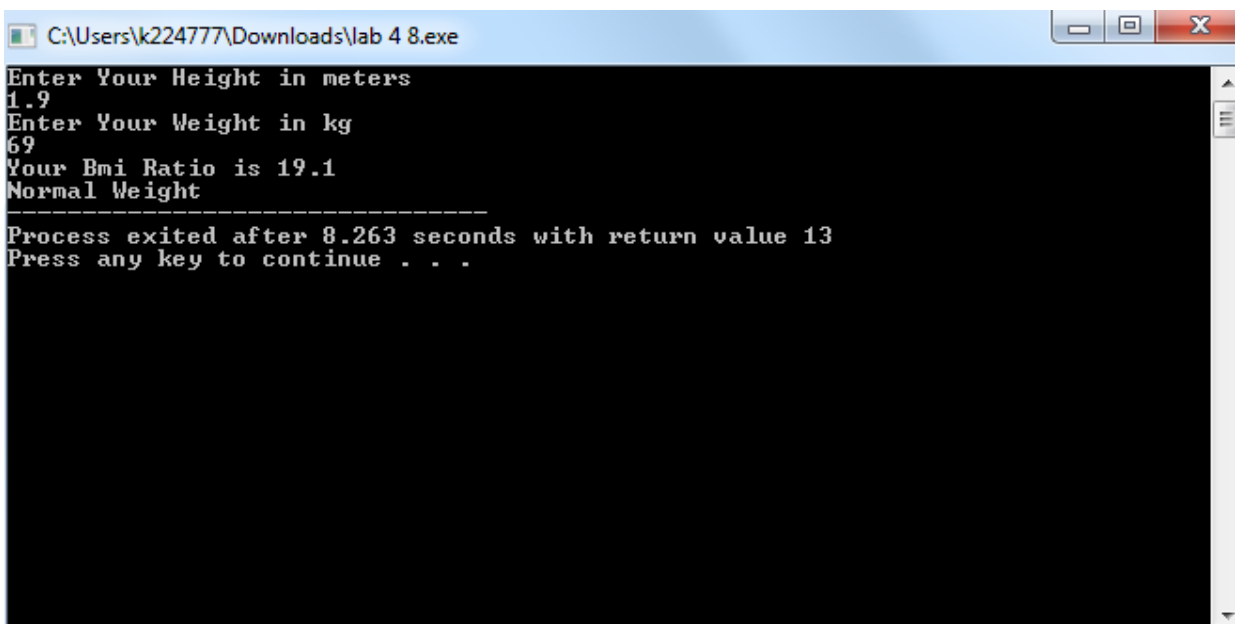
C:\Users\k224777\Documents\Q 8.exe

```
Aiman Has Collected 7 Pakistani Stamps
She Has Collected 4 Uk Stamps
She Has Collected 3 Germany Stamps
She Has Collected 3 Australian Stamps
Aiman Has 17 International Stamp
-----
```

```
Process exited after 0.04856 seconds with return value 0
Press any key to continue . . .
```

Qno9

```
1  #include<stdio.h>
2  #include<math.h>
3  int main()
4
5  {
6      float a,b,c;
7      float d;
8      printf("Enter Your Height in meters");
9      printf("\n");
10     scanf("%f",&a);
11     printf("Enter Your Weight in kg");
12     printf("\n");
13     scanf("%f",&b);
14     c=pow(a,2);
15     d=b/c;
16     printf("Your Bmi Ratio is %.1f\n",d);
17     if(d<18.5){
18         printf("Underweight");
19     }
20     else
21     if((d>=18.5) && (d<=24.9))
22     {
23         printf("Normal Weight");
24     }
25     else
26     if ((d>=25)&& (d<29.9))
27     {
28         printf("Overweight");
29     }
30     else
31     if(d>=30)
32     {
33         printf("Obese");
34     }
35 }
```



The screenshot shows a Windows command prompt window titled "C:\Users\k224777\Downloads\lab 4 8.exe". The program prompts the user to enter height and weight, calculates the BMI ratio, and categorizes the user's weight status. The output shows a BMI ratio of 19.1, which is categorized as "Normal Weight". The window also displays the process exit time and return value.

```
C:\Users\k224777\Downloads\lab 4 8.exe
Enter Your Height in meters
1.9
Enter Your Weight in kg
69
Your Bmi Ratio is 19.1
Normal Weight
-----
Process exited after 8.263 seconds with return value 13
Press any key to continue . . .
```