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Q1.
#include <stdio.h>
int main()
{
 int a = 125, b = 12345;
 long ax = 1234567890;
short s = 4043;
float x = 2.13459;
double dx = 1.1415927;
char c = 'W';
unsigned long ux = 2541567890;
printf("a + c = %d\n", a + c);
printf("x + c = %f\n", x + c);
printf("dx + x = %f\n", dx + x);
printf("((int) dx) + ax = %Id\n", ((int) dx) + ax);
printf("a + x = %f\n", a + x);
printf("s + b = %d\n", s + b);
printf("ax + b = %Id\n", ax + b);
printf("s + c = %hd\n", s + c);
printf("ax + c = %Id\n", ax + c);
printf("ax + ux = %lu\n", ax + ux);
 return 0;
Output:
a + c = 212
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x + c = 89.134590
dx + x = 3.276183
((int) dx) + ax = 1234567891
a + x = 127.134590
s + b = 16388
ax + b = 1234580235
s + c = 4130
ax + c = 1234567977
ax + ux = 3776135780
Q2. Convert specified days into years, weeks and days.
#include <stdio.h>
int main()
{
 int NoOfDays, years, weeks, days;
printf("\n Enter the Number of days : ");
scanf("%d", &NoOfDays);
years = NoOfDays / 365;
weeks = (NoOfDays % 365) / 7;
days = (NoOfDays % 365) % 7;
 printf("\n Years = %d", years);
 printf("\n Weeks = %d", weeks);
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printf("\n Days = %d", days);
return 0;
}
output:-
Enter the number of days:900
Years = 2
Weeks = 24
Days = 2
Q3.Accepts two item's weight (floating points' values ) and number of purchase (floating points'
values) and calculate the average value of the items.
#include <stdio.h>
int main()
 {
       double wi1, ci1, wi2, ci2, result;
  printf("Weight - Item1: ");
       scanf("%lf", &wi1);
       printf("No. of item1: ");
       scanf("%lf", &ci1);
        printf("Weight - Item2: ");
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scanf("%lf", &wi2);

scanf("%lf", &ci2);

printf("No. of item2: ");

result = ((wi1 \* ci1) + (wi2 \* ci2)) / (ci1 + ci2);

printf("Average Value = %f\n", result);

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return 0;
}
Output:-
Weight - Item1: 190.67
No. of item1: 5
Weight - Item2: 200.10
No. of item2: 5
Average Value = 195.385000
Q4. Create enumerated data type for 7 days and display their values in integer constant.
#include <stdio.h>
int main()
{
enum week{Sun, Mon, Tue, Wed, Thu, Fri, Sat};
printf("Sun = %d", Sun);
printf("\nMon = %d", Mon);
printf("\nTue = %d", Tue);
printf("\nWed = %d", Wed);
printf("\nThu = %d", Thu);
printf("\nFri = %d", Fri);
printf("\nSat = %d", Sat);
return 0;
}
Output:-
```

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Sun = 0
Mon = 1
Tue = 2
Wed = 3
Thu = 4
Fri = 5
Sat = 6
Q5. Convert Celsius into Fahrenheit.
#include<stdio.h>
          int main()
          {
          float fahrenheit, celsius;
          celsius = 40;
          fahrenheit =( (celsius*9)/5)+32;
          printf("\n\n Temperature in fahrenheit is: %f",fahrenheit);
            return (0);
  }
Output:-
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Q7. Print perimeter of a rectangle to take its height and width as input.
#include<stdio.h>
int main()
{
 float height, width, Perimeter;
printf ("\n Enter the Height of a Rectangle : ");
 scanf ("%f",&width);
printf ("\n Enter the Width of a Rectangle : ");
 scanf ("%f",&width);
Perimeter = 2 * (height + width);
printf("\n Perimeter of a Rectangle = %.2f", Perimeter);
return 0;
}
```

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Output:-
Enter the Height of a Rectangle: 80
Enter the Width of a Rectangle: 125
Perimeter of a Rectangle = 250.00
Q8.By using +,/,=\%,>=,! operators.
#include <stdio.h>
int main()
{
int a=10,b=20,c;
printf(" a+b= %d \n",a+b);
printf("a/b= %d n",a/b);
b %= a;
printf("b = %d\n", b);
printf(" a \ge b = %d \n", a \ge b);
printf("!(a != b) is %d \n", !(a != b));
```

return 0;

```
}
Output:
a+b= 30
a/b=0
b = 0
 a>=b =1
!(a != b) is 0
Q9.By using &, |, >>, ?:, | | operators.
#include <stdio.h>
int main()
{
  int a=10,b=20,c;
  printf(" a\&b=%d n",a\&b);
  printf("a|b= %d \n",a|b);
  printf("a>>b %d\n", a>>b);
  printf(" a?:b =%d \n",a?:b);
```

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printf("a||b %d \n", a||b);
  return 0;
}
Output:
a\&b=0
a|b= 30
a>>b 0
a?:b =10
a||b1
Q10. Find the size of int ,float, double and char.
#include <stdio.h>
int main()
{
int integerType;
float floatType;
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double doubleType;
char charType;
printf("Size of int is: %ld\n",
sizeof(integerType));
printf("Size of char is: %ld\n",
sizeof(charType));
printf("Size of float is: %ld\n",
sizeof(floatType));
printf("Size of double is: %Id\n",
sizeof(doubleType));
return 0;
}
Output:-
Size of int is: 4
Size of char is: 1
Size of float is: 4
```

Size of double is: 8