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**Sindh university**

@laar campus Badin

# Name: Qaim Ali Shah

# F/Name: ALI AKBAR SHAH

# Roll NO: 2K23-BLCS-46

# Bs Computer Science (Part I)

# Assignment of: PROGRAMING FUNDAMENTAL

# Assign by: SIR KIRSHAN KUMAR

# 

# 

**THIS PROGRAM WITH QUESTION NUMBER**

# 

Question: 1

# #include <stdio.h>

Int main() {

Char name[] = “Qaim Ali”;

Char father\_name[] = “Ali Akbar Shah”;

Int age = 25;

Char grade = ‘A’;

Printf(“Name\t\t\t: %s\n”, name);

Printf(“Father’s Name\t: %s\n”, father\_name);

Printf(“Age\t\t\t: %d years\n”, age);

Printf(“Grade\t\t\t: %c\n”, grade);

Return 0;

}

QUESTION: 2

#include <stdio.h>

Int main() {

Int num1, num2, sum, product;

Printf(“Enter 1st number? “);

Scanf(“%d”, &num1);

Printf(“Enter 2nd number? “);

Scanf(“%d”, &num2);

Sum = num1 + num2;

Product = num1 \* num2;

Printf(“---------------------------------------\n”);

Printf(“Sum of %d and %d is\t\t: %d\n”, num1, num2, sum);

Printf(“Product of %d and %d is\t: %d\n”, num1, num2, product);

Return 0;

}

QUESTION: 3

# #include <stdio.h>

Int main() {

Float basicPay, houseRent, medicalAllowance, computerAllowance, totalPay;

Printf(“Please enter Basic pay? “);

Scanf(“%f”, &basicPay);

houseRent = 0.4 \* basicPay;

medicalAllowance = 0.18 \* basicPay;

computerAllowance = 0.15 \* basicPay;

totalPay = basicPay + houseRent + medicalAllowance + computerAllowance;

printf(“PAY SLIP\n”);

printf(“Basic pay\t\t: %.2f\n”, basicPay);

printf(“House Rent (40%%)\t: %.2f\n”, houseRent);

printf(“Medical Allowance (18%%)\t: %.2f\n”, medicalAllowance);

printf(“Computer Allowance (15%%)\t: %.2f\n”, computerAllowance);

printf(“Total pay\t\t: %.2f\n”, totalPay);

return 0;

}

QUESTION: 4

#include <stdio.h>

Int main() {

Int num, square, cube;

Printf(“Please enter any one integer number? “);

Scanf(“%d”, &num);

Square = num \* num;

Cube = num \* num \* num;

Printf(“Square of %d is\t: %d\n”, num, square);

Printf(“Cube of %d is\t: %d\n”, num, cube);

Return 0;

}

QUESTION: 5

#include <stdio.h>

Int main() {

Int amount, denominations[] = {500, 100, 50, 20, 10, 5, 2, 1};

Int coins[sizeof(denominations)/sizeof(denominations[0])];

Int I, count;

Printf(“Enter any amount? “);

Scanf(“%d”, &amount);

For (I = 0; I < sizeof(denominations)/sizeof(denominations[0]); i++) {

Count = amount / denominations[i];

Coins[i] = count;

Amount = amount – (count \* denominations[i]);

}

Printf(“Denominations\t: “);

For (I = 0; I < sizeof(denominations)/sizeof(denominations[0]); i++) {

Printf(“%d\t”, denominations[i]);

}

Printf(“\nCoins\t\t: “);

For (I = 0; I < sizeof(coins)/sizeof(coins[0]); i++) {

Printf(“%d\t”, coins[i]);

}

Return 0;

}

QUESTION: 6

#include <stdio.h>

Int main() {

Char name[50], seatNo[20];

Int marks[4], I, total = 0;

Float percentage;

Printf(“Enter name of Student? “);

Fgets(name, 50, stdin);

Printf(“Enter Seat No? “);

Fgets(seatNo, 20, stdin);

For (I = 0; I < 4; i++) {

Printf(“Enter marks of Subject %d? “, i+1);

Scanf(“%d”, &marks[i]);

Total += marks[i];

}

Percentage = (float)total / 4;

Printf(“M A R K S H E E T\n”);

Printf(“Name\t: %s”, name);

Printf(“Seat No\t: %s”, seatNo);

Printf(“Subjects\tMarks\n”);

Printf(“-------------------------------------\n”);

For (I = 0; I < 4; i++) {

Printf(“%d. “, i+1);

Switch (i) {

Case 0:

Printf(“English\t\t”);

Break;

Case 1:

Printf(“Basic Electronics\t”);

Break;

Case 2:

Printf(“Mathematics\t”);

Break;

Case 3:

Printf(“Computer Programming\t”);

Break;

}

Printf(“%d\n”, marks[i]);

}

Printf(“-------------------------------------\n”);

Printf(“Total\t: %d\tPercentage\t: %.2f%%\n”, total, percentage);

Return 0;

}

QUESTION:7

#include <stdio.h>

Int main() {

Int num1, num2, sum, product, difference, division, remainder, total;

Printf(“Enter 1st number = “);

Scanf(“%d”, &num1);

Printf(“Enter last number = “);

Scanf(“%d”, &num2);

Sum = num1 + num2;

Product = num1 \* num2;

Difference = num1 – num2;

Division = num1 / num2;

Remainder = num1 % num2;

Total = sum + product + difference + division + remainder;

Printf(“Sum of %02d and %02d is\t\t\t: %02d\n”, num1, num2, sum);

Printf(“Product of %02d and %02d is\t\t: %02d\n”, num1, num2, product);

Printf(“Difference between %02d and %02d is\t: %02d\n”, num1, num2, difference);

Printf(“Division of %02d and %02d is\t\t: %02d\n”, num1, num2, division);

Printf(“Remainder of %02d and %02d is\t\t: %02d\n”, num1, num2, remainder);

Printf(“--------------------------------------------------------------\n”);

Printf(“Total is\t\t\t\t: %02d\n”, total);

Return 0;

}

QUESTION: 8

#include <stdio.h>

Int main() {

Int seconds, hours, minutes, remainingSeconds;

Printf(“Input Seconds? “);

Scanf(“%d”, &seconds);

Hours = seconds / 3600;

remainingSeconds = seconds % 3600;

minutes = remainingSeconds / 60;

remainingSeconds = remainingSeconds % 60;

printf(“Hours\t\t: %d\n”, hours);

printf(“Minutes\t\t: %d\n”, minutes);

printf(“Seconds\t\t: %d\n”, remainingSeconds);

return 0;

}

QUESTION: 9

#include <stdio.h>

Int main() {

Int days, years, weeks, remainingDays;

Printf(“Enter number of days? “);

Scanf(“%d”, &days);

Years = days / 365;

remainingDays = days % 365;

weeks = remainingDays / 7;

remainingDays = remainingDays % 7;

printf(“%d days is equal to:\n”, days);

printf(“%d year(s), %d week(s), and %d day(s)\n”, years, weeks, remainingDays);

return 0;

}

QUESTION: 10

#include <stdio.h>

Int main() {

Int n1, n2, temp;

Printf(“Enter value of N1? “);

Scanf(“%d”, &n1);

Printf(“Enter value of N2? “);

Scanf(“%d”, &n2);

Temp = n1;

N1 = n2;

N2 = temp;

Printf(“Value of N1 is: %d\n”, n1);

Printf(“Value of N2 is: %d\n”, n2);

Return 0;

}

QUESTION:11

#include <stdio.h>

Int main() {

Int num, digit, sum = 0;

Printf(“Please enter five-digit number? “);

Scanf(“%d”, &num);

Printf(“Separated from one another by three spaces: “);

For (int I = 4; I >= 0; i--) {

Digit = (num / (int)pow(10, i)) % 10;

Printf(“%d “, digit);

Sum += digit;

}

Printf(“\nSum of five digits: %d\n”, sum);

Return 0;

}

QUESTION: 12

#include <stdio.h>

Int main() {

Char ch;

Printf(“Enter any Character? “);

Scanf(“%c”, &ch);

Printf(“ASCII Value of %c character is: %d\n”, ch, ch);

Return 0;

}

QUESTION:13

#include <stdio.h>

Int main() {

Int num, reversed\_num = 0, remainder;

Printf(“Enter any number: “);

Scanf(“%d”, &num);

While(num != 0) {

Remainder = num % 10;

Reversed\_num = reversed\_num \* 10 + remainder;

Num /= 10;

}

Printf(“Reverse of %d is: %d\n”, num, reversed\_num);

Return 0;

}

QUESTION: 14

#include <stdio.h>

Int main() {

Int num, sum = 0, remainder;

Printf(“Enter any number: “);

Scanf(“%d”, &num);

While(num != 0) {

Remainder = num % 10;

Sum += remainder;

Num /= 10;

}

Printf(“Sum of digits = %d\n”, sum);

Return 0;

}