Assignment 1

Using ‘if’ and ‘switch’ structures

A picture containing clock

Description automatically generated

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(Q1)

#include <stdio.h>

int main()

{

int No1,No2;

printf("Enter a first number:\n");

scanf(" %d",&No1);

printf("\n");

printf("Enter a second number:\n");

scanf(" %d",&No2);

if(No1 > No2)

{

printf("\nHighest number is %d",No1);

}

else

{

printf("\nHighest number is %d",No2);

}

return 0;

}

(Q2)

#include <stdio.h>

int main()

{

int No1,No2,No3;

printf("Enter a first number:\n");

scanf(" %d",&No1);

printf("\nEnter a second number:\n");

scanf(" %d",&No2);

printf("\nEnter a third number:\n");

scanf(" %d",&No3);

if(No1 > No2 && No1 > No3)

{

printf("\nHighest number is %d",No1);

if(No2 < No3)

{

printf("\nLowest number is %d",No2);

}

else

{

printf("\nLowest number is %d",No3);

}

}

else if(No2 > No1 && No2 > No3)

{

printf("\nHighest number is %d",No2);

if(No1 < No3)

{

printf("\nLowest number is %d",No1);

}

else

{

printf("\nLowest number is %d",No3);

}

}

else

{

printf("\nHighest number is %d",No3);

if(No1 < No2)

{

printf("\nLowest number is %d",No1);

}

else

{

printf("\nLowest number is %d",No2);

}

}

return 0;

}

(Q3)

#include<stdio.h>

int main()

{

int NewSalary,BasicSalary;

char name[20];

printf("Enter the employer name:\n");

scanf("%s",&name);

printf("Enter the Basic Salary:\n");

scanf("%d",&BasicSalary);

if (BasicSalary<5000){

NewSalary = BasicSalary \* 5/100;

NewSalary = BasicSalary + NewSalary;}

else if(BasicSalary>=5000 & BasicSalary<10000){

NewSalary = BasicSalary \* 10/100;

NewSalary = BasicSalary + NewSalary;}

else {

NewSalary = BasicSalary \* 15/100;

NewSalary = BasicSalary + NewSalary;}

printf("Employer name is: %s \nYour New Salary is: %i", name,NewSalary);

return 0;

}

(Q4)

#include<stdio.h>  
int main()  
{  
char Name;  
char Area;  
int Service,Sales;  
float BasicSalary,NewSalary,MonthlySales;  
  
  
  
printf("Enter your Name\n");  
scanf(" %s",&Name);  
  
printf("Enter your BasicSalary\n");  
scanf("%f",&BasicSalary);  
  
printf("Enter your Area\n");  
scanf(" %s",&Area);  
  
printf("Your number of years of Service\n");  
scanf("%d",&Service);  
  
printf("Number of Sales\n");  
scanf("%d",&Sales);  
  
NewSalary=BasicSalary;  
  
if(Service>5 ){  
NewSalary = NewSalary + (NewSalary \* 10/100) ;  
  
  
}  
if(Area=='C'){  
NewSalary = NewSalary + 2500;  
  
  
}  
  
if(Sales<25000){  
NewSalary = NewSalary +(Sales\*10/100);  
}  
  
if(Sales>=25000 && Sales<50000){  
NewSalary = NewSalary + (Sales \* 12/100);  
  
}  
  
if(Sales>=50000){  
NewSalary = NewSalary + (Sales \* 15/100);  
  
}  
  
printf(" Your Monthly Salary is %f \n",NewSalary);  
  
  
return 0;  
}

Another answer for question – 04 (Q4)

#include<stdio.h>

int main (void)

{

int basic\_salary;

int years;

char city;

float bonus\_salary;

float salary;

float net\_salary;

printf ("Entrt the basic salary:") ;

scanf ("%d" , &basic\_salary);

printf("\nIs the sevices above or 5 years :");

scanf ("%d", &years);

printf ("\nEnter the working city (enter 'c' if it is colombo):");

scanf ("%\*c%c" ,&city);

if (basic\_salary>0 && basic\_salary < 25000)

{

bonus\_salary = basic\_salary + (basic\_salary \* 0.1);

if (years >= 5 )

{

salary = basic\_salary \* 0.1;

}

if (city=='c'| city=='c')

{

net\_salary = bonus\_salary + 2500 + salary ;

}

else

{

net\_salary = bonus\_salary + salary;

}

printf ("\nThe monthly remuneration of the salesman is %.2f ",net\_salary);

}

else if(basic\_salary >=25000 && basic\_salary < 50000)

{

bonus\_salary = basic\_salary + (basic\_salary \* 0.12);

if (years >= 5 )

{

salary = basic\_salary \* 0.1;

}

if (city=='c'| city=='c')

{

net\_salary = bonus\_salary + 2500 + salary ;

}

else

{

net\_salary = bonus\_salary + salary;

}

printf ("\nThe monthly remuneration of the salesman is %.2f ",net\_salary);

}

else if (basic\_salary >50000)

{

bonus\_salary = basic\_salary + (basic\_salary \* 0.15);

if (years >=5 )

{

salary = basic\_salary \* 0.1;

}

if (city=='c'| city=='c')

{

net\_salary = bonus\_salary + 2500 + salary ;

}

else

{

net\_salary = bonus\_salary + salary;

}

printf ("\nThe monthly remuneration of the salesman is %.2f ",net\_salary);

}

return 0;

(Q5)

#include <stdio.h>

int main()

{

char op;

float num1, num2, result=0.0f;

printf("-Welcome To Simple Calculator-\n");

printf("Enter [number 1] [+ - \* /] [number 2]\n");

scanf("%f %c %f", &num1, &op, &num2);

switch(op)

{

case '+':

result = num1 + num2;

break;

case '-':

result = num1 - num2;

break;

case '\*':

result = num1 \* num2;

break;

case '/':

result = num1 / num2;

break;

default:

printf("-Invalid operator-");

}

printf("%.2f %c %.2f = %.2f", num1, op, num2, result);

return 0;

}