**ASSIGNMENT 13**

***Q1. Write a program which takes the month number as an input and display number of days in that month.***

*#include <stdio.h>*

*int main()*

*{*

*int month,days;*

*printf("Enter the month number:");*

*scanf("%d",&month);*

*if(month==1 || month==3 || month==5 || month==7 || month==8 || month==10 || month==12)*

*{*

*days=31;*

*printf("No. of days= %d",days);*

*}*

*else if(month==4 || month==6 || month==9 || month==11)*

*{*

*days=30;*

*printf("No. of days=v%d",days);*

*}*

*else if(month==2)*

*{*

*printf("No. of days= 28 or 28");*

*}*

*else*

*{*

*printf("Invalid month number.");*

*}*

*return 0;*

*}*

***Q2. Write a menu driven program with the following options:***

* 1. ***Addition***
  2. ***Subtraction***
  3. ***Multiplication***
  4. ***Division***
  5. ***Exit***

*#include <stdio.h>*

*#include <stdlib.h>*

*int main()*

*{*

*int a,b;*

*printf("Enter two numbers:");*

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

*while(1)*

*{*

*printf("Enter any sign of operation: \naddition: +\nsubtraction: -\nmutliplication: \*\ndivision: /\nexit: e\n");*

*char ch;*

*scanf("%c",&ch);*

*switch(ch)*

*{*

*case '+':*

*{*

*printf("Addition=%d\n",a+b);*

*break;}*

*case '-':*

*{*

*printf("Subtraction=%d\n",a-b);*

*break;}*

*case '\*':*

*{*

*printf("Multiplication=%d\n",a\*b);*

*break;}*

*case '/':*

*{*

*printf("Division=%d\n",a/b);*

*break;*

*}*

*case 'e':*

*{*

*exit(0);}*

*}*

*}*

*return 0;*

*}*

***Q3. Write a program which takes the day number of a week and displays a unique***

***greeting message for the day.***

*#include <stdio.h>*

*#include <stdlib.h>*

*int main()*

*{*

*while(1)*

*{*

*printf("Enter no. of day, monday=1, exit=8:");*

*int d;*

*scanf("%d",&d);*

*switch(d)*

*{*

*case 1:*

*{*

*printf("Hello, Enjoy your Monday!\n");*

*break;}*

*case 2:*

*{*

*printf("Hello, Enjoy your Tuesday!\n");*

*break;}*

*case 3:*

*{*

*printf("Hello, Enjoy your Wednesday!\n");*

*break;}*

*case 4:*

*{*

*printf("Hello, Enjoy your Thursday!\n");*

*break;*

*}*

*case 5:*

*{*

*printf("Hello, Enjoy your Friday!\n");*

*break;}*

*case 6:*

*{*

*printf("Hello, Enjoy your Saturday!\n");*

*break;}*

*case 7:*

*{*

*printf("Hello, Enjoy your Sunday!\n");*

*break;}*

*case 8:*

*{*

*exit(0);}*

*}*

*}*

*return 0;*

*}*

***Q4. Write a menu driven program with the following options:***

1. ***1.Check whether a given set of three numbers are lengths of an isosceles triangle or not***
2. ***Check whether a given set of three numbers are lengths of sides of a right angled triangle or not***
3. ***Check whether a given set of three numbers are equilateral triangle or not***
4. ***Exit***

*#include <stdio.h>*

*#include <stdlib.h>*

*int main()*

*{*

*int s1,s2,s3;*

*printf("Enter three sides of a triangle:");*

*scanf("%d%d%d",&s1,&s2,&s3);*

*while(1)*

*{*

*printf("Enter: \na:Check triangle is isosceles or not \nb:Check triangle is right-angled or not \nc:Check triangle is equaliteral or not \nd:exit\n");*

*char ch;*

*scanf("%c",&ch);*

*switch(ch)*

*{*

*case 'a':*

*{*

*if(s1==s2||s2==s3||s3==s1)*

*printf("Isosceles triangle\n");*

*else*

*printf("Not an Isosceles triangle\n");*

*break;}*

*case 'b':*

*{*

*if(s1\*s1==s2\*s2+s3\*s3 || s2\*s2==s3\*s3+s1\*s1 || s3\*s3==s2\*s2+s1\*s1)*

*printf("Right-angled triangle\n");*

*else*

*printf("Not a right-angled triangle\n");*

*break;}*

*case 'c':*

*{*

*if(s1==s2&&s2==s3)*

*printf("Equilateral triangle\n");*

*else*

*printf("Not an Equilateral triangle\n");*

*break;}*

*case 'd':*

*{*

*exit(0);}*

*}*

*}*

*return 0;*

*}*