//IT20151492

//Warnakulasuriyage K.H.A

//Group 7.1

Question 01

\* flowchart

If

Integer = 0

Display ”Number is negative”

If

Integer > 0

Input Integer

No No

Yes Yes

Display ”Number is zero”

Display ”Number is positive”

\* C programme

#include<stdio.h>

int main (void)

{

int num ;

printf("Enter Integer Namber:");

scanf("%d",&num);

if(num>0)

{

printf("Namber is Positive");

}

else

{

if(num==0)

{

printf("Namber is Zero");

}

else

{

printf("Namber is Negative");

}

}

return 0;

}

Question 02

\* flowchart

Yes

No

Display ”It is an odd number”

Remain = Number % 2

If

Remain = 0

Display ”It is an even number”

Input Number

Remain = 0

\* C programme

#include<stdio.h>

int main(void)

{

int remain ;

int no;

printf(" Enter a Number:");

scanf("%d",&no);

remain= no%2;

if(remain==0)

{

printf("It is an Even Namber");

}

else

{

printf("It is an Odd Namber");

}

return 0;

}

Question 03

\* C programme

#include <stdio.h>

int main() {

int num, a, b, c, d, e;

int digit = 0;

printf( "Enter five digit number: " );

scanf( "%d", &num );

a = num / 10000;

b = num / 1000 % 10;

c = num / 100 % 10;

d = num / 10 % 10;

e = num % 10;

if ( a == e && b == d ) {

printf("NUMBER IS PALINDROME\n" );

}

else

{

printf("NUMBER IS NOT PALINDROME\n" );

}

return 0;

}

Question 04

\* C programme

#include <stdio.h>

int main (void)

{

char grade, A,B,C,F;

printf("Enter Grade:");

scanf("%c",&grade);

if(grade=='A'||grade=='a')

{

printf("Excellent\n");

}

else

{

if(grade=='B'||grade=='b')

{

printf("Good\n");

}

else

{

if(grade=='C'||grade=='c')

{

printf("Satisfactory\n");

}

else

{

if (grade=='F'||grade=='f')

{

printf("Needs improvement\n");

}

else

{

printf("Enter valid grade\n");

}

}

}

}

return 0;

}

Question 05

\* C programme

#include<stdio.h>

char main (void)

{

char grade, A,B,C,F;

printf("Enter Grade:\n");

scanf("%c",&grade);

switch(grade)

{

case'A':printf("Excellent\n");

break;

case'B':printf("Good\n");

break;

case'C':printf("Satisfactory\n");

break;

case'F':printf("Needs improvement\n");

break;

defalult:printf("Enter valid grade\n");

}

return 0;

}

Question 06

\* C programme

char main (void)

{

char grade;

printf("Enter Your grade:");

scanf("%c",&grade);

if (grade=='A')

{

printf("Excellent");

}

else

{

if (grade=='B')

{

printf("Good");

}

else

{

if (grade=='C' || grade=='c')

{

printf("Satisfactory");

}

else

{

printf("Need Improvement");

}

}

}

return 0;

}

Question 07

\* C programme

#include<stdio.h>

int main(void)

{

float salary,bonus,full\_salary;

int employeeCat;

printf("Enter Employee Catagory:");

scanf("%d",&employeeCat);

printf("Enter Salary:");

scanf("%f",&salary);

if(employeeCat==1)

{

bonus = salary\*0.05;

full\_salary = salary+bonus;

}

else

{

if(employeeCat==2)

{

bonus = salary\*0.1;

full\_salary = salary+bonus;

}

else

{

if (employeeCat==3)

{

bonus = salary\*0.15;

full\_salary = salary+bonus;

}

else

{

printf("Wrong Catagory");

}

}

}

printf("Bonus=%f\n",bonus);

printf("full Salary=%f\n",full\_salary);

return 0;

}