```
NIPUN LDS - 30605
quection 1
#include<stdio.h>
int main()
{
    int m1, m2;
    printff("Enter the marks of module 1 & 2");
    scanf("%d %d",&m1,&m2);
    if(m1>=50 \&\& m2>=50)
        printf("pass \n");
    else
       printf?("fall \n")
quection 2
#include<stdio.h>
       int main ()
        printf ("Enter a month number ");
        scanf ("%d", &m);
        switch (m)
            case 1:printf ("January "); break;
            case 2:printf ("February "); break;
           default:printf ("%d is not a valid month number ", m);
quection 3
#include<stdio.h>
int main ()
    char ch;
    printf ("Enter a character");
    scanf ("%c", &ch);
```

```
switch (ch)
        case 'a':printf ("a is a vowel "); break;
        case 'e':printf ("e is a vowel"); break;
        default:printf ("%c is not vowel ", ch);
quection 4
#include<stdio.h>
int main ()
    int x=1;
   while(x <= 100)
    printf("%d", x);
       x++;
quection 5
#include<stdio.h>
int main ()
    int x=10;
   while(x<=1000)
    printf("%d", x);
       x= x+10;
NAME : LDS NIPUN -30605
practical number 03
operators , if conditions
```

```
quection 1
#include <stdio.h>
int main()
  int number1, number2;
  int highest_number;
  printf("enter the first number: ");
  scanf("%d", &number1);
  printf("enter the second number: ");
  scanf("%d", &number2);
 if (number1 > number2) {
    highest number = number1;
 } else {
    highest number = number2;
 printf("The highest number is %d\n", highest number);
  return 0;
quection 2
#include <stdio.h>
int main() {
  int number1, number2, number3;
  int largest number, smallest number;
  printf("Enter the 1st number: ");
  scanf("%d", &number1);
  printf("Enter the 2nd number: ");
  scanf("%d", &number2);
  printf("Enter the 3rd number: ");
  scanf("%d", &number3);
  largest number = number1;
  smallest number = number1;
  if (number2 > largest number) {
   largest number = number2;
```

```
} else if (number2 < smallest number) {</pre>
    smallest_number = number2;
 if (number3 > largestn umber) {
    largest_number = number3;
 } else if (number3 < smallest number) {</pre>
    smallest_number = number3;
 printf("The largest number is %d\n", largest number);
 printf("The smallest number is %d\n", smallest number);
  return 0;
quection 3 2023/05/31 (practical number 03)
#include<stdio.h>
intmain()
 char EmpName[60];
 float bs, ns, inc;
 printf ("Enter employee name");
 printf("Enter your basic salary");
 scanf("%f", &bs);
 if (bs<5000)
 inc = bs*0.1;
 else if (bs>=5000 && bs<10000){
 inc=bs*0.2;
 else{
     inc=bs*0.15;
 ns = bs+inc;
 printf("Employee name %c/n",empName);
 printf("New salary %2f /n",ns);
```

```
quection 4 2023/06/07
#include <stdio.h>
int main()
   float radius;
 float pi=3.14;
  printf("enter the radius: ");
  scanf("%f",&radius);
  printf("The diameater is %.2f\n", 2*radius);
  printf("The circumfence is %.2f\n", 2*pi*radius);
   printf("The area is %.2f\n", pi*radius*radius);
quection 5 2023/06/07
#include <stdio.h>
int main()
 int numberone;
 int numbertwo;
 char answer='y';
 while(answer=='y') {
 printf("\n");
 printf("Enter number 1:");
  scanf("%d",&numberone);
  printf("Enter number 2:");
  scanf("%d",&numbertwo);
    if(numberone >0 && numbertwo >0)
        if(numberone%numbertwo==0)
        printf("%d is a multiplication of %d \n", numberone, numbertwo);
       printf("%d is not a multiplication of %d \n", numberone, numbertwo);
     answer='n';
    }else{
       printf("Cant enter 0 as a number, try again with different values \n");
```

```
answer='y';
quection 6
#include <stdio.h>
int main() {
 printf("The integer equivalen of A is: %d\n", ord('A'));
 printf("The integer equivalen of B is: %d\n", ord('B'));
  printf("The integer equivalen of C is: %d\n", ord('C'));
 printf("The integer equivalen of a is: %d\n", ord('a'));
  printf("The integer equivalen of b is: %d\n", ord('b'));
  printf("The integer equivalen of c is: %d\n", ord('c'));
  printf("The integer equivalen of 0 is: %d\n", ord('0'));
  printf("The integer equivalen of 1 is: %d\n", ord('1'));
  printf("The integer equivalen of 2 is: %d\n", ord('2'));
  printf("The integer equivalen of $ is: %d\n", ord('$'));
  printf("The integer equivalen of * is: %d\n", ord('*'));
  printf("The integer equivalen of + is: %d\n", ord('+'));
  printf("The integer equivalen of / is: %d\n", ord('/'));
 printf("The integer equivalen of the blank character is: %d\n", ord('/0'));
  return 0;
quection 7
#include <stdio.h>
int main() {
  int basic salary, service years, monthly sales;
  char city;
  float additional allowance, bonus;
  printf("Enter the basic salary:");
  scanf("%d", &basic_salary);
  printf("Enter the service years:");
  scanf("%d", &service_years);
  printf("Enter the monthly sales:");
  scanf("%d", &monthly_sales);
  printf("Enter the city [C for Colombo]");
  scanf(" %c", &city);
  if (service_years > 5) {
    additional allowance = basic salary * 0.1;
  } else {
   additional llowance = 0;
```

```
if (city == 'C') {
   additional allowance += 2500;
 if (monthly sales <= 25000) {</pre>
   bonus = monthly sales * 0.1;
 } else if (monthly sales <= 50000) {</pre>
   bonus = monthly sales * 0.12;
 } else {
    bonus = monthly sales * 0.15;
  float grossr emuneration = basic_salary + additional allowance + bonus;
 printf("The gross remuneration is Rs. %.2f\n", gross remuneration);
  return 0;
END 03
Practical number 04
selection control structers
2023/06/16
quection 1
#include <stdio.h>
#include<stdlib.h>
    int main()
    {int num;
    printf("enter an integer:");
     scanf("%d",&num);
     if(num % 2== 0){
         printf("%d is Even.\n" ,num);
    } else{
        printf("%d is Odd.\n",num);
        return 0;
```

```
quection 2
#include <stdio.h>
int main() {
 int num1, num2, operator;
 printf("Select an operation:\n");
 printf("1. Addition\n");
 printf("2. Subtraction\n");
 printf("3. Multiplivation\n");
 printf("4. Division\n");
 printf("5. Exit\n");
  scanf("%d", &operator);
 while (operator < 1 || operator > 5) {
    printf("Invalid input Please enter a number between 1 and 5 \n");
    scanf("%d", &operator);
 printf("enter the first number:");
  scanf("%d", &num1);
 printf("enter the second number:");
  scanf("%d", &num2);
  switch (operator) {
    case 1:
      printf("%d + %d = %d\n", num1, num2, num1 + num2);
      break;
    case 2:
      printf("%d - %d = %d\n", num1, num2, num1 - num2);
    case 3:
          printf("%d * %d = %d\n", num1, num2, num1 * num2):
     break;
    case 4:
      if (num2 == 0) {
        printf("Division by zero is not possible.\n");
      } else {
```

```
printf("%d / %d = %d\n", num1, num2, num1 / num2);
      break;
 return 0;
quection 3
#include <stdio.h>
double circumference(double radius);
double area(double radius);
double volume(double radius);
int main() {
 double radius;
  int choice;
 printf("what would you like to calculate?\n");
 printf("1. Circumference\n");
  printf("2. Area\n");
 printf("3. Volume\n");
 printf("Enter your choice: ");
  scanf("%d", &choice);
 if (choice < 1 || choice > 3) {
    printf("Invalid choice.\n");
    return 0;
  printf("Enter the radius: ");
  scanf("%lf", &radius);
 switch (choice) {
     printf("The circumference is %.2f.\n", circumference[radius]);
     break;
      printf("The area is %.2f\n", area[radius]);
      break;
   case 3:
```

```
printf("The volume is %.2f.\n", volume[radius]);
      break;
 return 0;
double circumference(double radius) {
 return 2 * 3.14 * radius;
double area(double radius) {
 return 3.14 * radius * radius;
double volume(double radius) {
 return (4 / 3) * 3.14 * radius * radius * radius;
quection 4....
quection 5
#include <stdio.h>
int main()
  int month number;
 int number of days;
 printf("Enter a month number: ");
 scanf("%d", &month number);
 switch (month number)
   case 1:
     number of days = 31;
     break;
    case 2:
     number of days = 28;
     break;
    case 3:
     number of days = 31;
     break;
      number of days = 30;
     break;
```

```
number of days = 31;
      break;
    case 6:
      number of days = 30;
      break;
    case 7:
      number of days = 31;
      break;
    case 8:
      number of days = 31;
      break;
    case 9:
      number of days = 30;
      break;
    case 10:
      number of days = 31;
      break;
    case 11:
      number of days = 30;
      break;
    case 12:
      number of days = 31;
      break;
    default:
      printf("Invalid month number\n");
      break;
  printf("The number of days in the month is %d \n", number of days);
  return 0;
End 04
practical 1 (06/19)
#include <stdio.h>
 int main()
  int counter=1,odd=0,even=0,no;
  do
   printf("enter %d number,counter",counter);
  scanf("%d",&no);
   if(no%2==0);
  } while (counter<=10);</pre>
practical 1
```

```
#include <stdio.h>
 int main()
 int counter=1,oddc=0,evenc=0,no;
  printf("enter %d number,counter",counter);
   scanf("%d",&no);
   if(no%2==0)
    evenc=evenc++1;
    else
    oddc=oddc+1;
    counter++;
  } while (counter<=10);</pre>
  printf("Total number of odds %d \n",oddc);
  printf("Total number of evens %d \n", evenc);
  practical 2
#include <stdio.h>
 int main()
  int counter=1,oddc=0,evenc=0,no;
  for(counter=1;counter<=10;counter++);</pre>
   printf("enter%d number",counter);
      scanf("%d",&no):
   if(no%2==0)
     evenc=evenc+1;
     oddc=oddc+1;
  printf("total number of odds %d \n",oddc);
  printf("total number of evens %d \n",evenc);
 loops (while, do while) 05
(06/21)
practical 05
Iteration control structure
```

```
quection 1
#include <stdio.h>
int main() {
 int i = 0;
   printf("%D\n", i);
   i++;
 } while ( i <= 100);</pre>
  return 0;
quection 2
#include <stdio\.h>
int main() {
    int marks[10], total = 0, i;
    float average;
    for (i = 0; i < 10; i++) {
        printf("Enter mark %d;\ ", i + 1);
        scanf("%d", &marks[i]);
    for (i = 0; i < 10; i++)
       total += marks[i];
    average = total / 10.0;
    printf("total marks: %d\n", total);
    printf("average: %2f\n", average);
    printf("fail\n");
   printf("pass\n");
quection 3
#include <stdio.h>
```

```
int main()
 int fac=,num=i;
  printf("Enter your number:");
 scanf("%d",&num);
  for(i=1;i<=num;i++)</pre>
  fac=fac*i;
 printf("Factorial of %d is:%d",num,fac\);
C (SUNDAY)
#include <stdio.h>
int main()
       float prices[10],sum=0,avg,max=0;
       for(i=0;i<10;i++)
       printf("enter the price of product %d",i+1);
       scanf("%f",&prices [i]);
       for(i=0;i<10;i++)
         sum=sum+prices[i];
         printf("The prices of product %d is% .2f \n",i+1,prices[i]);
         if(prices[i]>max)
         max=prices[i];
      avg=sum/10.0;
      printf("The average prices is %.2f \n",avg);
      printf("The highest prices is %.2f\n",max);
quection 04 (lab)
```

```
#include <stdio.h>
int main()
int number, digit, sum = 0;
 printf("Enter the number: ");
scanf("%d", &number);
while (number > 0){
  digit = number % 10;
  sum += digit;
  printf("The sum of the digits is %d\n", sum);
return 0;
quection 5
#include <stdio.h>
int main() {
 int number, reverse = 0, remainder;
 printf("Enter a number: ");
 scanf("%d", &number);
 do {
   remainder = number %10;
   reverse = reverse *10 + remainder;
   number = number /10;
 } while (number >0);
 printf("the reversed number is: %d\n", reverse);
 return 0;
quection 6
#include <stdio.h>
int main() {
 int base, n,power = 1;
 printf("Enter base: ");
```

```
scanf("%d", &base);
 printf("Enter exponent: ");
 scanf("%d", &n);
 for (int i = 0; i < n; i++)
   power *= base;
 printf("%d raised to the powers of %d is: %d\n", base,n, power);
 return 0;
quection 7
#include <stdio.h>
int main() {
 int i, a = 0, b = 1, c;
 printf("First 10 Fibonacci numbers: \n");
 for (i = 0; i < 10; i++)
   c= a + b;
   printf("%d ", c);
   a = b;
 printf("\n");
 return 0;
quection 9
#include <stdio.h>
int main() {
 int num, temp, digit, sum = 0;
 printf("enter a number: ");
 scanf("%d", &num);
 temp = num;
 while (temp > 0) {
   digit = temp % 10;
   sum += digit * digit * digit;
   temp /= 10;
```

```
if (sum == num)
    printf("%d is an armstrong number .\n", num);
 } else {
    printf("%d is not an armstrong number .\n", num);
 return 0;
new one
05
#include <stdio.h>
int main() {
 int array[2];
  int min_value = array[0];
 int max_value = array[0];
 int sum_value = 0;
 // Input the values to the array
 for (i = 0; i < 2; i++) {
   printf("Enter the value of element %d: ", i + 1);
    scanf("%d", &array[i]);
 for (i = 0; i < 2; i++) {
   if (array[i] < min_value) {</pre>
      min_value = array[i];
 // Find the maximum value
 for (i = 0; i < 2; i++) {
   if (array[i] > max_value) {
      max_value = array[i];
 for (i = 0; i < 2; i++) {
   sum_value += array[i];
 float average = sum_value / 2.0;
  // Reverse the order of values
```

```
int temp = array[0];
  array[0] = array[1];
  array[1] = temp;
 printf("The minimum value is: %d\n", min_value);
 printf("The maximum value is: %d\n", max_value);
 printf("The average is: %.2f\n", average);
 printf("The reversed array is: %d %d\n", array[0], array[1]);
 return 0;
muliti dimention array (9july,10)
#include <stdio.h>
int main() {
   int arr [3][4];
   int r,c;
   for(r=0;r<3;r++)
       for (c=0;c<4;c++)
            printf("enter the value");
            scanf("%d",&arr[r][c]);
 //display
   for(r=0;r<3;r++)
       for (c=0;c<4;c++)
            printf("%d",arr[r][c]);
      printf("\n");
#include <stdio.h>
#include <math.h>
int main() {
 float ans, x;
  for(x=1;x<=100;x++)
```

```
ans=sqrt (x);
 printf("Square root value of %.2f% is %.2f \n",x,ans);
july/17 C
#include <stdio.h>
void findmax(int a, int b)
    int max;
    if(a>b)
    max =a;
    else
    max=b;
    printf("the highest is %d \n",max);
int main(){
findmax(80,70);
#include <stdio.h>
int findsum()
    int a,b,sum;
    printf("ENTER TWO NUMBERS");
    scanf("%d,%d",&a,&b);
    sum=a+b;
return sum;
int main(){
printf("the sum is%d \n",findsum());
```

```
#include <stdio.h>
int findage()
     int age ,byear;
     printf("enter your birth year");
     scanf("%d",&byear);
     age=2023-byear;
return age;
int main(){
printf("the sum is%d \n",findage());
#include <stdio.h>
int findavg(float a, float b)
    float avg;
    avg=(a+b)/2;
return avg;
int main(){
printf("the average is%.2f \n",findavg (85,30));
#include <stdio.h>
int findmax(int a, int b,int c)
  int max;
  max=a;
  if(b>max)
  max= b;
  if(c>max)
  max=c;
  return max;
```