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**Malabe group 1.2**

**Tutorial 5**

**Exercise 1**

**01,**

//sachintha hasaranga, it21194962

#include<stdio.h>

int main(){

int nu=10; //variable

while(nu<=20){ //check condiction

printf("%d, ",nu); //print number

nu++;

}

return 0;

}

**02,03**

//sachintha hasaranga, it21194962

#include<stdio.h>

int main(){

int number,count=0; //variable

float sum,average; //variable

printf("enter numbers :- "); //prompt

scanf("%d",&number); //read integer

while(number>=0){ //check condition

printf("%d \n",number); //print number

count++; //count+1

sum=sum+number; //assign total to sum

printf("enter numbers :- "); //prompt

scanf("%d",&number); //read integer

}

average=sum/count; //assign average

printf("sum :- %.2f",sum\n); //print sum

printf("average :- %.2f",average); //print average

return 0;

}

**Exercise 2**

**while**

If case x=1 :- No output

If case x=10 :- 1098765432

**Do while**

If case x=1 :- 1

If case x=10 :- 1098765432

**Exercise 3**

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#include<stdio.h>

int main(void){

int marks=0; //variables

int st=0; //variable for student count

int count=0; //variable for marks module count

int total; //variable for calculate student total marks

int max=0; //variable for calculate highest marks

int student; //variable for calculate highest mark student

while(st<3){ //condition for count 3 student

total=0; //assign total to 0

count=0; //assign count to 1

while(count<4){ //condition for count 4 marks

printf("Enter module %d marks :- ",count+1); //prompt

scanf("%d",&marks); //read integer

total=total+marks; //assign marks for total

count++;

}

printf("\ntotal marks :- %d \n\n",total); //print total marks

if (st==0){

max=total; //for asign first student marks for max

student=st+1;

}

if (total>max){ //condiction for calculate max

max=total; //assign max

student=st+1; //assign highest mark student

}

st++; //next student

}

printf(" highest mark student is :- student %d with %d marks",student,max);

//printhighest mark student with highest mark

return 0;

}

Exercise 4

//sachintha hasaranga, it21194962

#include<stdio.h>

int main(){

int j=1; //variable

int i=1; //variable

for(j=1;j<=7;j++){ //counter control

for(i=1;i<=j;i++){ //counter control

printf("\*"); //print

}//exit for loop

printf("\n");

}//exit for loop

for(j=7;j>=1;j-=2){ //counter control

for(i=1;i<=j;i++){ //counter control

printf("\*"); //print

}//exit for loop

printf("\n");

}//exit for loop

return 0;

}//exit main