Name=[]

Score=[]

Player1=[]

Player2=[]

Player3=[]

Player4=[]

while True:

NoOfPlayers=int(input("Enter the number of players taking part in the round"))

if NoOfPlayers==2 or NoOfPlayers==3 or NoOfPlayers==4:

break

else:

print("Invalid no.of palyers")

for i in range(0,NoOfPlayers):

#for i in range(0,4):

Name1=input("Enter Name")

Name.append(Name1)

while True:

NoOfHoles=int(input("Enter the number of holes to be played: 9 or 18"))

if NoOfHoles==9 or NoOfHoles==18:

break

else:

print("No of holes are invalid")

Par= int(input("The par for the course"))

while True:

print("Please check the following data before the round starts")

print("1.The number of players", NoOfPlayers)

print("2.Players names",Name)

print("3.The number of holes to be played",NoOfHoles)

print("4.The par for the course", Par)

Correct=input("Is the data correct? Pls enter Y OR N")

if Correct == 'N':

Choice=int(input("specify the menu no. to correct it"))

if Choice == 1:

NoOfPlayers=int(input("Enter the number of players taking part in the round"))

elif Choice ==2:

NoOfPlayers.clear()

for i in range(0,NoOfPlayers):

Name1=input("Enter Name")

Name.append(Name1)

elif Choice==3:

NoOfHoles=int(input("Enter the number of holes to be played: 9 or 18"))

else:

Par= int(input("The par for the course"))

else:

break

for i in range(0,NoOfHoles):

Player1.append(0)

Player2.append(0)

Player3.append(0)

Player4.append(0)

for i in range(0,NoOfPlayers):

Score.append(0)

#print(Player1)

#print(Player2)

#print(Player3)

#print(Player4)

#Task2 - scoring the round

Total1=0

Total2=0

Total3=0

Total4=0

for i in range(0, NoOfHoles):

print("Enter the no. of strokes for the Hole - " + str(i+1))

Score1=int(input("Enter the score for " +Name[0]))

while True:

Score2=int(input("Re-enter the strokes for verification - "))

if Score1==Score2:

Player1[i]=Score1

Total1=Total1+Score1

Score[0]=Total1

break

Ans=input("would you like to see total number of strokes you have played so far? Pls enter Y or N")

if Ans =="Y":

print("your Total strokes ", Score[0])

Score1=int(input("Enter the score for " + Name[1]))

while True:

Score2=int(input("Re-enter the strokes for verification - "))

if Score1==Score2:

Player2[i]=Score1

Total2=Total2+Score1

Score[1]=Total2

break

Ans=input("would you like to see total number of strokes you have played so far?")

if Ans =="Y":

print("your Total strokes ", Score[1])

if NoOfPlayers>2:

Score1=int(input("Enter the score for " + Name[2]))

while True:

Score2=int(input("Re-enter the strokes for verification - "))

if Score1==Score2:

Player3[i]=Score1

Total3=Total3+Score1

Score[2]=Total3

break

Ans=input("would you like to see total number of strokes you have played so far?")

if Ans =="Y":

print("your Total strokes ", Score[2])

if NoOfPlayers>3:

Score1=int(input("Enter the score for "+Name[3]))

while True:

Score2=int(input("Re-enter the strokes for verification - "))

if Score1==Score2:

Player4[i]=Score1

Total4=Total4+Score1

Score[3]=Total4

break

Ans=input("would you like to see total number of strokes you have played so far?")

if Ans =="Y":

print("your Total strokes ", Score[3])

#Task3 – deciding the winning player

Min=Score[0]

Pos=0

for i in range(1,NoOfPlayers):

if (Score[i]<Min):

Min=Score[i]

Pos=i

print("Winner of this round is", Name[Pos])

print("Winning score", Score[Pos])

#Task3 - Display the name and final score for each player relative to par

for i in range (0,NoOfPlayers):

if Score[i]>Par:

FinalScore = Score[i]-Par

print(Name[i], "Final Score is", FinalScore,"Over the par")

else:

FinalScore = Par - Score[i]

print(Name[i], "Final Score is", FinalScore,"below the par")

#Task3 - every player’s score for each hole

print(Name[0], end=" ")

for i in range(NoOfHoles):

print(Player1[i],end=" ")

print("")

print(Name[1], end=" ")

for i in range(NoOfHoles):

print(Player2[i],end=" ")

print("")

if NoOfPlayers>2:

print(Name[2], end=" ")

for i in range(NoOfHoles):

print(Player3[i],end=" ")

print("")

if NoOfPlayers>3:

print(Name[3], end=" ")

for i in range(NoOfHoles):

print(Player4[i],end=" ")

#Task3 - the player’s name and hole number of any score of one for a hole (hole-in-one)

for i in range(NoOfHoles):

if Player1[i]==1:

print(Name[0],"on hole no. ",i+1)

if Player2[i]==1:

print(Name[1],"on hole no. ",i+1)

if Player3[i]==1:

print(Name[2],"on hole no. ",i+1)

if Player4[i]==1:

print(Name[3],"on hole no. ",i+1)

#Task3 - the average score for the round

GrandTotal=0

for i in range(0,NoOfPlayers):

GrandTotal=GrandTotal+Score[i]

Average = GrandTotal/(NoOfPlayers\*NoOfHoles)

#Average = GrandTotal/(4\*2)

print("Average", Average)

#Task3 - The average score for a hole.

for i in range(NoOfHoles):

Avg=(Player1[i]+Player2[i]+Player3[i]+Player4[i])/NoOfPlayers

print("Hole ",i+1," Average is ",Avg)